



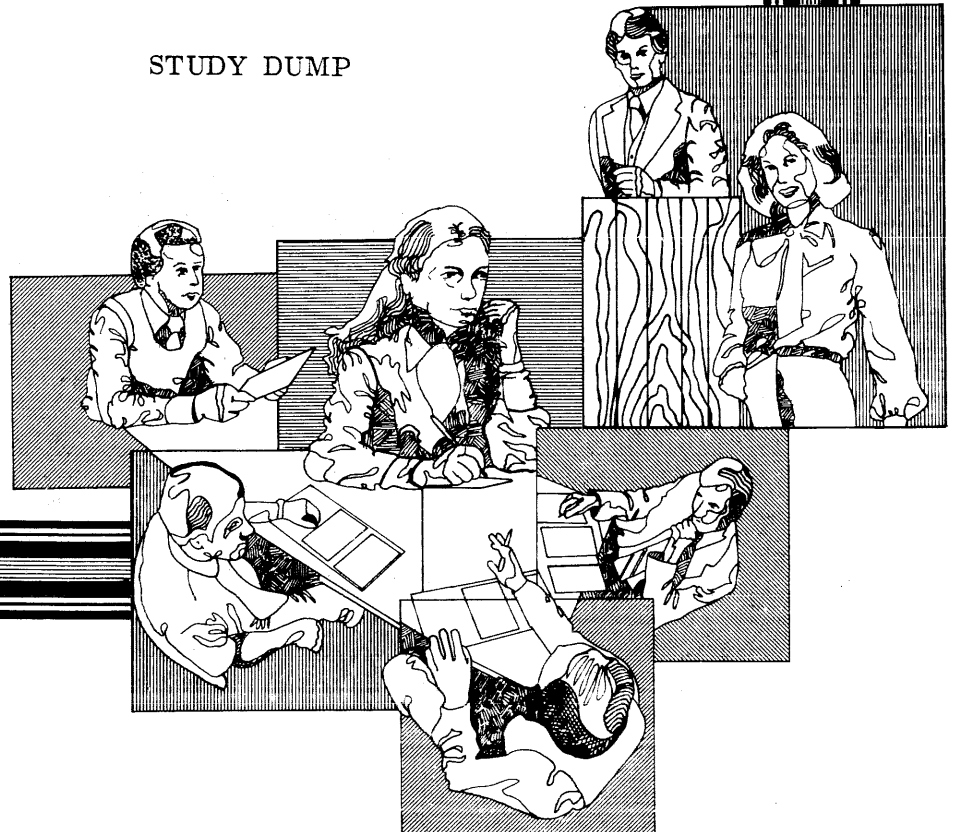
CONTROL DATA  
CORPORATION

# SEMINARS

COURSE NO. FH4010-4

NOS ANALYSIS

STUDY DUMP



COURSE NO. FH4010-4

NOS ANALYSIS

STUDY DUMP

## PROPRIETARY NOTICE

The ideas and designs set forth in this document are the property of Control Data Corporation and are not to be disseminated, distributed, or otherwise conveyed to third persons without the express written permission of Control Data Corporation.

REVISION RECORD	
REVISION	DESCRIPTION
A	
(06-15-78)	Manual Release
B	
(10-12-78)	Manual Update
C	
(04-25-80)	Manual Update
Publication No.	
FH4010-4	

REVISION LETTERS I, O, Q AND X ARE NOT USED  
 NOS ANALYSIS STUDY DUMP

1982  
 ©COPYRIGHT CONTROL DATA CORPORATION 1982  
 All Rights Reserved

Address comments concerning  
 this manual to:  
**CONTROL DATA CORPORATION**  
 National Coordinator  
 5001 West 80th Street  
 Bloomington, Minnesota 55437  
 Attn: Curtis Vicha  
 or use Comment Sheet in the  
 back of this manual.

SS SS SS SS SS SS SS SS SS SS  
SSSS SS SS SS SS SS SS SS SS SS  
SS SS SS SS SS SS SS SS SS SS  
SS SS SS SS SS SS SS SS SS SS  
SSSSSS SS SS SS SS SS SS SS SS  
SS SS SS SS SS SS SS SS SS SS  
SS SS SS SS SS SS SS SS SS SS  
SS SS SS SS SS SS SS SS SS SS

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	1
1	IPL	PP (7421)	61	1617	79/07/17.	INITIAL PROGRAM LOADER -CTI-.			
2	CD7	PP (6120)	135	7257	79/07/17.	CD7 (ATS) TAPE DRIVER -CTI-.			
3	CD6	PP (6120)	137	3435	79/07/17.	CD6 (MTS) TAPE DRIVER -CTI-.			
4	CD3	PP (6120)	135	7033	79/07/17.	3000 TYPE TAPE DRIVER -CTI-.			
5	CD4	PP (6120)	143	1733	79/07/17.	844 DISK DRIVER -CTI-.			
6	CD8	PP (6120)	143	6741	79/07/17.	885 DISK DRIVER -CTI-.			
7	IOQ	PP (6000)	76	2561	79/07/17.	INITIAL OPERATOR QUERIES -CTI-.			
8	OIP	PP (0010)	466	2125	79/07/17.	78/06/09. 78/06/09. OPERATOR INTERVENTION PROCESSOR.			
9	AEI	PP (6000)	55	5362	79/07/17.	UTILITIES EXECUTIVE -CTI-.			
10	ICD	PP (0150)	325	0043	79/07/17.	INSTALL CTI ON DISK. CTI.			
11	ICE	PP (0150)	141	5625	79/07/17.	OVERLAY FOR ICD. CTI.			
12	EDD	PP (6000)	57	0245	79/07/17.				
13	EDT	PP (0100)	420	6443	79/07/17.				
14	DEM	PP (1201)	107	4702	79/07/17.				
15	DPC	PP (1060)	44	0464	79/07/17.				
16	SAD	PP (0100)	121	2245	79/07/17.	SELECT ALTERNATE DEADSTART DEVICE. CTI.			
17	DHE	PP (0010)	431	6746	79/07/17.				
18	MAD	PP (0010)	355	1466	79/07/17.				
19	PCM	PP (0010)	556	4144	79/07/17.				
20	CMC	PP (3451)	210	0251	79/07/17.				
21	SCE	PP (3451)	215	5737	79/07/17.				
22	EBL	PP (0200)	411	2537	79/07/17.	EXTERNAL BOOTSTRAP LOADER. CTI.			
23	ZZZ	PP (0000)	2	2142	79/07/17.	LAST PROGRAM -CTI-.			
24	OSB	PP (6320)	55	7234	79/06/20.	79/05/10.	OPERATING SYSTEM BOOTSTRAP.		
25	DIO	PP (0000)	456	0516	79/06/20.	79/05/10.	DEADSTART I/O PROCESSOR.		
26	(00)	SUM =	6721	LIBRARY =	1				
27	SET	PP (0000)	426	2751	79/06/20.	78/04/10. 79/05/09. INITIALIZE SYSTEM.			
28	CMR	PP (1462)	1054	4061	79/06/20.	78/04/10. 79/05/09. SET - SET SYSTEM CONFIGURATION.			
29	CMRINST	TEXT	733	2775					
30	CMRDECK	TEXT	321	4163					

CMRDECK  
 NAME= (0) CYBER 174 S/N 620 CLSH.  
 VERSION=NOS 1.4-501/498.  
 MID=62.  
 NCP=24.  
 FNT=1756.  
 CM=7777.  
 EQ01=DQ-1,0N,0,42,5,7. SYSTEM, TEMP  
 EQ02=DQ-1,0N,0,43,5,7. SYSTEM,TEMP  
 EQ04=DI-1,0N,0,6,21,20. TEMP  
 EQ05=DI-1,0N,0,16,20,21. TEMP  
 EQ06=DK-2,0N,4,26,20,21. PF/40  
 EQ07=DI-N3,0N,0,24,34,44,22,24.  
 EQ10=OS,0N,7,0,10.  
 EQ11=DJ-1,0N,0,2,23,24. RMVE  
 EQ12=DQ-1,0N,0,40,7,5. PF/42  
 EQ13=DQ-1,0N,0,41,5,7. PF/43  
 EQ14=DJ-N2,0N,0,3,4,21,20. PF/44  
 EQ15=DI-1,0N,0,5,23,24.  
 EQ16=DI-1,0N,0,6,23,24.  
 EQ17=DI-1,0N,0,4,23,24.  
 EQ20=DI-1,0N,0,54,24,22. RMVE  
 EQ21=DI-1,0N,0,64,22,24. RMVE  
 EQ22=DJ-1,0N,0,0,22,23. FMD DRIVE FOR TESTING  
 EQ23=DI-1,0N,0,35,22,23. RMVE

EQ24=DJ-1,ON,0,1,24,22. RMVE  
 EQ27=DJ-1,ON,0,3,22,23. RMVE  
 EQ30=DK-1,ON,0,46,20,21. RMVE, FT.  
 EQ32=DI-1,ON,0,7,23,24. RMVE  
 EQ33=DJ-1,ON,0,5,20,21. RMVE  
 EQ34=DJ-1,ON,0,0,7,5. RMVE  
 EQ35=DJ-1,ON,0,1,5,7. RMVE  
 EQ36=DI-1,ON,0,14,22,24.  
 EQ37=DI-1,ON,0,15,22,23.  
 EQ40=TT,OFF,7,2,0,,30. TRANEX STIMULATOR  
 EQ41=TT,OFF,0,1,0,0,100. STIMULATOR  
 EQ42=TT,ON,2,,2,,100. 2550-100 (6676 EMULATOR)  
 EQ43=ST,OFF,7,,4. 6671  
 EQ44=NP,ON,7,1,1,,2. NPU NODE3  
 EQ45=NP,OFF,7,1,6,,2. LOCAL/REMOTE NPU NODE7  
 EQ46=SE,ON,7,,4. STEM 6671 S/N 183.  
 EQ47=CR,ON,4,,12.  
 EQ50=MT-7,ON,0,0,13,32,,,20. 66X  
 EQ60=MT-7,ON,4,0,31,33,,,10. 67X  
 EQ70=CP,ON,7,,12.  
 EQ71=LP,ON,3,,12. 512  
 EQ72=LP,ON,2,,12.  
 EQ73=LT-6,ON,5,,12. 580 UPPER/LOWER CASE  
 EQ74=LS-1P,ON,6,,12. 580-20 PFC  
 PF=6,F,140,140,NOSCLSH,40.  
 PF=7,F,010,010,NOSCLSH,41.  
 PF=12,F,003,003,NOSCLSH,42.  
 PF=13,F,200,200,NOSCLSH,43.  
 PF=14,F,024,024,NOSCLSH,44.  
 TEMP=1,2,4,5.  
 REMOVE=11,15,16,17,20,21,22,23,24,27,30,32,33,34,35,36,37.  
 FAMILY=13.  
 SYSTEM=1,2.  
 NAMIAF=102.

31 CMRDCK1

TEXT 154 1731  
 CMRDCK1  
 NAME=(1) CYBER 175 SN/01 (FILES):  
 VERSION=NOS 1.4-501/498.  
 MID=01.  
 NCP=27.  
 EQ1=DK-1,ON,0,2,20,23. SYSTEM, TEMP,FULL TRACK  
 EQ2=DK-1,ON,0,3,20,23. SYSTEM, TEMP,FULL TRACK  
 EQ3=DI-1,ON,0,57,00,02. FAMILY  
 EQ4=DJ-1,ON,0,2,00,02. REMOVABLE  
 EQ5=DJ-1,ON,0,3,00,02. REMOVABLE  
 EQ6=DJ-1,ON,0,4,00,02. REMOVABLE  
 EQ7=DJ-1,ON,0,1,00,02. REMOVABLE  
 EQ10=DS,ON,7,0,10.  
 EQ11=DI-1,ON,0,37,00,02. REMOVABLE  
 EQ12=DI-1,ON,0,47,00,02. REMOVABLE  
 EQ13=DI-1,ON,0,27,00,02. REMOVABLE  
 EQ14=DI-1,ON,0,17,00,02. REMOVABLE  
 EQ15=DM-1,ON,0,42,7. TEMP  
 EQ16=DM-1,ON,0,43,7. TEMP  
 EQ20=CR,ON,4,0,11.

EQ21=CP,ON,5,0,12.  
 EQ22=LR,ON,1,0,12.  
 EQ23=LQ,ON,2,0,12.  
 EQ24=LR,ON,7,0,12.  
 EQ25=LP,ON,6,0,11.  
 EQ30=TT,ON,6,0,27,0,20.  
 EQ31=TT,ON,7,1,27,0,100.  
 EQ32=TT,OFF,7,2,25,0,100.  
 EQ33=ST,OFF,6,0,4.  
 EQ35=NP,ON,7,1,5,,2. NPU NODE3  
 EQ50=MT-10,ON,0,0,13,,,,20.  
 EQ60=MT-7,OFF,0,0,32,,,,10.  
 TEMP=1,2,15,16.  
 FAMILY=3.  
 REMOVE=4,5,6,7,11,12,13,14.

32 CMRDCK2 TEXT 237 3604

CMRDCK2  
 NAME=(2) CYBER73 172. DEV.  
 VERSION=NOS 1.4-501/498.  
 MID=72.  
 NCP=27.  
 LIB=1.  
 EQ1=DJ-1,ON,0,6,26,32. SYSTEM,TEMP  
 EQ2=DJ-1,ON,0,7,26,32. SYSTEM,TEMP  
 EQ3=DJ-1,ON,0,1,26,32. TEMP  
 EQ4=DI-1,ON,0,2,26,32. REMOVABLE  
 EQ5=DI-1,ON,0,3,26,32. REMOVABLE  
 EQ6=DI-1,ON,0,4,26,32. REMOVABLE  
 EQ7=DI-1,ON,0,5,26,32. FAMILY  
 EQ10=DS,ON,7,,10.  
 EQ11=DP,ON,400,30. ASR,ROLLOUT  
 EQ20=CR,ON,4,,12.  
 EQ21=CP,ON,5,,12.  
 EQ22=LP,ON,6,,12. 580  
 EQ23=LT-1,ON,7,,12. 580-20  
 EQ24=LP,ON,3,,12. 512  
 EQ30=TT,ON,7,,4,,20. 6671  
 EQ31=TT,ON,7,,6,,40. 6676  
 EQ32=TT,OFF,6,1,0,,310. TELEX STIMULATOR - 200 TERMINAL  
 EQ33=TT,OFF,6,1,0,,226. TELEX STIMULATOR - 150 TERMINAL  
 EQ34=NQ,OFF,7,1,1,,3. 2550 S/N 121 NODE3  
 EQ35=NP,OFF,7,1,3,,3. 2550 S/N 101 NODE2  
 EQ36=SE,OFF,7,3,4. STEM 6671 S/N 113  
 EQ37=SE,OFF,7,3,5. STEM 6671 S/N 230  
 EQ40=TS,OFF,2,0,25,0,100. 6676 STIMULATOR - 100 TERMINALS  
 EQ41=TS,OFF,7,0,2,0,100. 6676 STIMULATOR - 100 TERMINALS  
 EQ42=NP,OFF,7,1,11,0,2. 2550 STIMULATOR S/N 102/112  
 EQ46=ST,OFF,7,,5. REMOTE BATCH  
 EQ47=TT,OFF,4,2,0. TRANEX STIMULATOR  
 EQ60=MT-6,ON,0,0,33,31,,,,20. 66X  
 EQ70=SC,ON,7,2,27. 211  
 EQ71=SC,ON,7,1,27. 211  
 EQ72=SC,ON,6,2,27,,4. 211  
 EQ73=SC,ON,6,1,27,,4. 211  
 EQ76=TE,ON,,,0.



TEMP=1,2,3.  
 REMOVE=4,5,6.  
 FAMILY=7.  
 ASR=11.  
 UEC=200.  
 SYSTEM=1,2.

33 CMRDCK3 TEXT 343 5772  
 CMRDCK3  
 NAME= (3) CYBER 174 S/N 620 CLSH MMF.  
 VERSION=NOS 1.4-501/498.  
 MID=62.  
 NCP=24.  
 LIB=1.  
 FNT=1756.  
 CM=7777.  
 EQ1=DQ-1,ON,0,42,5,7.  
 EQ2=DQ-1,ON,0,43,5,7.  
 EQ4=DI-1,ON,0,6,21,20. TEMP  
 EQ5=DI-1,ON,0,16,20,21. TEMP  
 EQ6=DI-2,ON,4,26,20,21. PF/40  
 EQ7=DI-N3,ON,0,24,34,44,22,24. PF/41  
 EQ10=DS,ON,7,0,10.  
 EQ11=DP,ON,400,30. LINK,ASR  
 EQ12=DM-1,ON,0,40,7,5. PF/42  
 EQ13=DM-1,ON,0,41,5,7. PF/43  
 EQ14=DJ-N2,ON,0,3,4,21,20. PF/44  
 EQ15=DI-1,ON,0,5,23,24. REMOVE  
 EQ16=DI-1,ON,0,6,24,23. REMOVE  
 EQ17=DI-1,ON,0,4,23,24. REMOVE  
 EQ20=DI-1,ON,0,54,24,22. REMOVE  
 EQ21=DI-1,ON,0,64,22,24. REMOVE  
 EQ22=DJ-1,ON,0,0,22,23. FMD DRIVE FOR TESTING  
 EQ23=DI-1,ON,0,35,22,23. REMOVE  
 EQ24=DJ-1,ON,0,1,24,22. REMOVE  
 EQ27=DJ-1,ON,0,3,22,23. REMOVE  
 EQ30=DI-1,ON,0,46,20,21. REMOVE  
 EQ32=DI-1,ON,0,7,23,24. REMOVE  
 EQ33=DJ-1,ON,0,5,20,21. REMOVE  
 EQ34=DJ-1,ON,0,0,7,5. RMVE  
 EQ35=DJ-1,ON,0,1,5,7. RMVE  
 EQ36=DI-1,ON,0,14,22,24. RMVE  
 EQ37=DI-1,ON,0,15,22,23. RMVE  
 EQ40=TT,OFF,7,2,0,30. TRANEX STIMULATOR  
 EQ41=TT,OFF,0,1,0,0,100. STIMULATOR.  
 EQ42=TT,ON,2,2,100. 2550-100 (6676 EMULATOR)  
 EQ43=ST,OFF,7,4. 6671  
 EQ44=NP,ON,7,1,1,2. NPU NODE3  
 EQ45=NP,OFF,7,1,6,2. LOCAL/REMOTE NPU NODE7  
 EQ46=SE,ON,7,4. STEM 6671 S/N 183.  
 EQ47=CR,ON,4,12.  
 EQ50=MT-7,ON,0,0,13,32,20. 66X  
 EQ60=MT-7,ON,4,0,31,33,10. 67X  
 EQ70=CP,ON,7,12.  
 EQ71=LP,ON,3,12. 512  
 EQ72=LP,ON,2,12. 512

EQ73=LT-6,0N,5,,12. 580 U/L CASE  
 EQ74=LS-1P,0N,6,,12. 580-20 PFC  
 PF=6,F,140,140,NOSCLSH,40.  
 PF=7,F,010,010,NOSCLSH,41.  
 PF=12,F,003,003,NOSCLSH,42.  
 PF=13,F,200,200,NOSCLSH,43.  
 PF=14,F,024,024,NOSCLSH,44.  
 TEMP=1,2,4,5.  
 REMOVE=15,16,17,20,21,22,23,24,27,30,32,33,34,35,36,37.  
 FAMILY=13.  
 LINK=11.  
 SHARE=12,6,7,11,13,14,15,16,17,22,4,5,24.  
 SHARE=20,21,23,27,30,32,33,34,35,36,37.  
 UEC=30,72.  
 UEC=30,62.  
 ASR=11.  
 PF=11,F,377,377,LINK,62.  
 NAMIAF=102.  
 SYSTEM=1,2.

34 CMRCK4 TEXT 311 0664  
 CMRCK4  
 NAME=(4) CYBER73 172. CLSH MMF.  
 VERSION=NOS 1.4-501/498.  
 MID=72.  
 LIB=0.  
 NCP=24.  
 FNT=1756.  
 EQ1=DJ-1,0N,0,7,26. SYSTEM,TEMP  
 EQ2=DJ-1,0N,0,1,26. SYSTEM,TEMP  
 EQ4=DI-1,0N,0,6,21,20. TEMP  
 EQ5=DI-1,0N,0,16,20,21. TEMP  
 EQ6=DI-2,0N,4,26,20,21. PF/40  
 EQ7=DI-N3,0N,0,24,34,44,22. PF/41  
 EQ10=DS,0N,7,0,10.  
 EQ11=DP,0N,400,30. LINK,ASR  
 EQ12=DM-1,0N,0,40,13,24. PF/42  
 EQ13=DM-1,0N,0,41,24,13. PF/43  
 EQ14=DJ-N2,0N,0,3,4,21,20. PF/44  
 EQ15=DI-1,0N,0,5,23. REMOVE  
 EQ16=DI-1,0N,0,6,23. REMOVE  
 EQ17=DI-1,0N,0,4,23. REMOVE  
 EQ20=DI-1,0N,0,54,22. REMOVE  
 EQ21=DI-1,0N,0,64,22. REMOVE  
 EQ22=DJ-1,0N,0,0,22,23. REMOVE  
 EQ23=DI-1,0N,0,35,22,23. REMOVE  
 EQ24=DJ-1,0N,0,1,22. REMOVE  
 EQ27=DJ-1,0N,0,3,22,23. REMOVABLE  
 EQ30=DI-1,0N,0,46,20,21. REMOVE  
 EQ32=DI-1,0N,0,7,23. REMOVE  
 EQ33=DJ-1,0N,0,5,20,21. REMOVE  
 EQ34=DJ-1,0N,0,0,13,24. RMVE  
 EQ35=DJ-1,0N,0,1,13,24. RMVE  
 EQ36=DI-1,0N,0,14,22. RMVE  
 EQ37=DI-1,0N,0,15,22,23. RMVE  
 EQ40=TT,UFF,7,2,0,,30. TRANEX STIMULATOR

EQ41=TT,ON,0,1,0,0,100. TIME-SHARING STIMULATOR  
 EQ42=TT,ON,7,6,77. 6676  
 EQ43=ST,OFF,7,4. 6671  
 EQ44=NP,ON,7,3,2. 2550 S/N 124 NODE2  
 EQ45=SE,OFF,7,5,3. STEM 6671 S/N 113  
 EQ47=CR,ON,4,12.  
 EQ60=MT-6,ON,0,0,31,33,20. 66X  
 EQ70=CP,ON,5,12.  
 EQ72=LP,OFF,3,12. 512  
 EQ73=LP,ON,7,12. 512  
 EQ74=LP,ON,6,12. 512  
 TEMP=1,2,4,5.  
 FAMILY=13.  
 LINK=11.  
 SHARE=12,6,7,11,14,15,16,17,13,4,5.  
 SHARE=20,21,23,27,30,32,33,34,35,36,37,22,24.  
 REMOVE=15,16,17.  
 REMOVE=20,21,23,27,30,32,33,34,35,36,37,22,24.  
 ASR=11.  
 LBC,NH,20,21.  
 LBC,FT,20,21.  
 UEC=30,72.  
 UEC=30,62.  
 PF=11,F,377,377,LINK,72.  
 SYSTEM=1,2.

35 CMRDCK5 TEXT 13 3135  
 CMRDCK5  
 NAME=(5) UNIVERSAL CMRDECK.  
 VERSION=NOS 1.4-501/498.  
 EQ10=DS,ON,7,0,10. DSD CONSOLE

36 ICM PP (2532) 645 3550 79/06/20. 78/04/10. 79/05/09. SET - INITIALIZE CENTRAL MEMORY.  
 37 IPR PP (1462) 252 4263 79/06/20. 78/04/10. 79/05/09. SET - INSTALLATION PARAMETERS.  
 38 IPRINST TEXT 624 1470  
 39 IPRDECK TEXT 157 3334  
 IPRDECK  
 TDEN=HY.  
 CSM=64.  
 LOCK.  
 E1200.  
 VALID.  
 IAF.  
 QUEUE,SY,IN,OP7757,LP700,UP3000.  
 QUEUE,SY,RO,OP6000,LP100,UP1000.  
 QUEUE,SY,OT,OP400,LP100,UP7700.  
 SERVICE,SY,PR1,CP100,CM20.  
 QUEUE,BC,IN,OP2400,LP2000,UP4010.  
 QUEUE,BC,RO,OP2400,LP1010,UP4004.  
 QUEUE,BC,OT,OP200,LP100,UP7000.  
 SERVICE,BC,PR30,CP400,CM200.  
 QUEUE,EI,IN,OP3400,LP2400,UP4010.  
 QUEUE,EI,RO,OP3400,LP1400,UP4006.  
 QUEUE,EI,OT,OP200,LP100,UP7600.  
 SERVICE,EI,PR30,CP400,CM200.  
 QUEUE,TX,IN,OP4000,LP3770,UP7006.

QUEUE, TX, RD, OP4004, LP3740, UP7000.  
 QUEUE, TX, DT, OP200, LP100, UP7000.  
 SERVICE, TX, PR30, CP40, CM10.  
 QUEUE, MT, IN, OP6774, LP6700, UP7400.  
 QUEUE, MT, RD, OP6774, LP4000, UP7400.  
 QUEUE, MT, DT, OP6000, LP100, UP7700.  
 SERVICE, MT, PR31, CP400, CM60.  
 QUEUE, NS, IN, OP7374, LP7360, UP7500.  
 QUEUE, NS, RD, OP7374, LP7350, UP7500.  
 QUEUE, NS, DT, OP500, LP100, UP7700.  
 SERVICE, NS, PR73, CP400, CM200.  
 DELAY, JS1, CS10, AR1000.  
 DSD, 0, MAIXX, QREC(INK)  
 DSD, 3, AUTO.  
 SCP.  
 MS VALIDATION.  
 PF VALIDATION.  
 SRST=40.

40	PPR	PP (0000)	143	2576	79/06/20.	79/05/10.	79/06/20.	PP RESIDENT.
41	STL	PP (1100)	244	1533	79/06/20.	79/05/10.		SYSTEM TAPE LOADER.
42	MTR	PP (0000)	1434	1263	79/07/26.	79/05/10.	79/07/26.	PPU MONITOR.
43	CPUMLD	REL	763	1622	79/06/20.	79/05/10.		75/02/17. CPUMTR LOADER.
44	CPUMTR	REL	12105	0251	79/07/26.	79/05/10.	79/07/26.	CPU MONITOR.
45	DSD	PP (0000)	1462	3335	79/06/20.	79/05/10.		SYSTEM DISPLAY.
46	RSL	PP (1504)	57	7672	79/06/20.	79/05/10.		STL - LOAD RESIDENT SYSTEM LIBRARY.
47	RMS	PP (1210)	473	1051	79/07/10.	79/05/10.	79/07/10.	MSM - MASS STORAGE RECOVERY MANAGER.
48	REC	PP (1100)	713	0660	79/06/20.	78/01/18.		SYSTEM RECOVERY PROCESSOR.
49	IDD	PP (1511)	54	5327	79/06/20.	79/05/10.	79/06/20.	PPR - DUMP DAYFILE BUFFER.
50	1MA	PP (1100)	147	5503	79/06/20.	78/04/10.	79/05/09.	MONITOR AUXILLARY PROCESSOR.
51	2MB	PP (2124)	74	2347	79/06/20.	78/04/10.	79/05/09.	2MB - ECS STORAGE REQUEST PROCESSING.
52	2MA	PP (2124)	174	5031	79/06/20.	78/04/10.	79/05/09.	2MA - SYSTEM CP FACILITY PROCESSOR.
53	1MB	PP (1100)	37	4332	79/06/20.	79/05/10.		1MB - INITIAL SCR PROCESSOR.
54	1MC	PP (1100)	6	4167	79/06/20.	79/05/10.		MONITOR PARITY ERROR REPORTING.
55	2MC	PP (1100)	67	3366	79/06/20.			
56	2MD	PP (1211)	301	1116	79/06/20.	79/05/10.		1MB - SECONDARY SCR PROCESSOR.
57	CIO	PP (1100)	340	3122	79/07/05.	78/04/10.	79/07/05.	COMBINED INPUT/OUTPUT.
58	0BF	PP (0000)	76	7431	79/06/20.	78/04/10.	79/05/09.	BEGIN FILE.
59	0BP	PP (0000)	515	3215	79/06/20.	78/04/10.	79/05/09.	76/10/06. 0BP - LOAD BANNER PAGE.
60	0DF	PP (0000)	113	1576	79/06/20.	79/05/10.		DROP FILE.
61	0FA	PP (0000)	24	1600	79/06/20.	76/01/11.	79/05/09.	RELEASE FAST ATTACH PERMANENT FILE.
62	0RF	PP (0000)	75	4103	79/06/20.	78/04/10.	79/05/09.	UPDATE RESOURCE FILES.
63	0RP	PP (0000)	72	2530	79/06/20.	79/05/10.		RELEASE PERMANENT FILE.
64	2CA	PP (3234)	62	7623	79/07/05.	78/04/10.	79/07/05.	CIO - IDENTIFY SPECIAL REQUEST.
65	2CB	PP (1605)	121	3172	79/07/05.	78/04/10.	79/07/05.	CIO - READ MASS STORAGE.
66	2CC	PP (2427)	175	6234	79/07/05.	78/04/10.	79/07/05.	CIO - SPECIAL MASS STORAGE READS.
67	2CD	PP (1605)	375	4500	79/07/05.	78/04/10.	79/07/05.	CIO - WRITE MASS STORAGE.
68	2CE	PP (4367)	34	3360	79/07/05.	78/04/10.	79/07/05.	CIO - SPECIAL MASS STORAGE WRITES.
69	2CF	PP (3234)	242	0446	79/07/05.	78/04/10.	79/07/05.	CIO - POSITION MASS STORAGE.
70	2CG	PP (4367)	336	5170	79/07/05.	78/04/10.	79/07/05.	CIO - CLOSE MASS STORAGE.
71	2CH	PP (1605)	20	3007	79/07/05.	78/04/10.	79/07/05.	CIO - TERMINAL INPUT/OUTPUT.
72	2CI	PP (1605)	54	2201	79/07/05.	78/04/10.	79/07/05.	CIO - MAGNETIC TAPE OPERATIONS.
73	2CJ	PP (3234)	53	7262	79/07/05.	78/04/10.	79/07/05.	CIO - MULTI-FILE LABEL PROCESSOR.
74	2CK	PP (4602)	132	4736	79/07/05.	78/04/10.	79/07/05.	CIO - ERROR PROCESSOR.

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	8
75	ZCL	PP (4632)	133	3156	79/07/05.	78/04/10. 79/07/05.	CIO - ISSUE DAYFILE MESSAGE.		
76	4DA	PP (3005)	536	0513	79/07/10.	79/05/10. 79/07/10.	MSM - RECOVER PRESERVED FILES.		
77	4DD	PP (4433)	226	1772	79/06/20.	78/01/18.	REC - RECOVER DAYFILES.		
78	4DE	PP (4433)	263	1036	79/06/20.	78/01/18.	REC - ALLOCATE/RECOVER USER ECS.		
79	4DB	PP (3470)	473	5722	79/07/10.	79/05/10. 79/07/10.	MSM - DEVICE RECOVERY ROUTINES.		
80	4DC	PP (5107)	67	5726	79/07/10.	79/05/10. 79/07/10.	MSM - VALIDATE PF SYSTEM.		
81	4DF	PP (5107)	101	1606	79/07/10.	79/05/10. 79/07/10.	MSM - UPDATE MMF TABLES IN ECS.		
82	4DG	PP (5107)	232	4375	79/07/10.	79/05/10. 79/07/10.	MSM - DEVICE RECOVERY ROUTINES.		
83	4DH	PP (5107)	70	0221	79/07/10.	79/05/10. 79/07/10.	MSM - DEVICE INITIALIZATION ROUTINES.		
84	6DE	PP (0556)	41	1300	79/06/20.	79/05/10.	60E - ECS DRIVER.		
85	7DE	PP (7661)	21	0231	79/06/20.	79/05/10.	ECS ERROR PROCESSOR.		
86	6DI	PP (0556)	52	3673	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 MAIN DRIVER.		
87	7DI	PP (7500)	50	0767	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 ERROR PROCESSOR.		
88	7WI	PP (7737)	10	1624	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 WRITE ERROR PROC		
89	7SI	PP (7567)	35	2661	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 STATUS PROCESSOR		
90	OTI	PP (0000)	64	1667	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 TRACK FLAW PROCE		
91	OP I	PP (0000)	47	0370	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 PACK SERIAL PROC		
92	OCI	PP (0000)	43	2313	79/06/20.	79/05/10. 79/06/14.	6DI - 7155-7X54/885-844 FIRMWARE IDENT P		
93	7EP	PP (7574)	34	2240	79/06/20.	79/05/10. 79/06/20.	7EP - DISK ERROR PROCESSING.		
94	6MD	PP (0556)	52	3742	79/06/20.	79/05/10.	3553-1/841-N DRIVER.		
95	7MD	PP (7546)	40	7462	79/06/20.	79/05/10.	3553-1/841-N ERROR PROCESSOR.		
96	6DP	PP (0556)	52	4241	79/06/20.	79/05/10. 79/06/14.	DDP/ECS DRIVER.		
97	7DP	PP (7512)	46	7702	79/06/20.	79/05/10. 79/06/14.	DDP/ECS ERROR PROCESSOR.		
98	7MP	PP (7562)	36	3004	79/06/20.	79/05/10. 79/06/14.	DDP/ECS ERROR MESSAGE PROCESSOR.		
99	7RP	PP (7620)	30	2256	79/06/20.	79/05/10. 79/06/14.	DDP/ECS REMAINING BLOCK ERROR PROCESSOR.		
100	7SP	PP (7567)	35	3644	79/06/20.	79/05/10. 79/06/14.	DDP/ECS SINGLE WORD RETRY PROCESSOR.		
101	9AY	PP (6227)	37	4322	79/06/20.	79/05/10.	DSD - N. SYNTAX TABLE - CHARACTERS A-C,		
102	9AZ	PP (6227)	31	0506	79/06/20.	79/05/10.	DSD - N. SYNTAX TABLE - CHARACTERS O-*		
103	9AO	PP (6227)	17	7016	79/06/20.	79/05/10.	DSD - SYSTEM SYNTAX TABLE - *EN* COMMAND		
104	9A1	PP (6227)	50	4233	79/06/20.	79/05/10.	DSD - SYSTEM SYNTAX TABLE - CHARACTERS B		
105	9A2	PP (6227)	45	7753	79/06/20.	79/05/10.	DSD - SYSTEM SYNTAX TABLE - CHARACTERS F		
106	9A3	PP (6227)	45	2616	79/06/20.	79/05/10.	DSD - SYSTEM SYNTAX TABLE - CHARACTERS P		
107	9A4	PP (6227)	20	0077	79/06/20.	79/05/10.	DSD - SYSTEM SYNTAX TABLE - CHARACTERS T		
108	9A5	PP (6227)	37	1273	79/06/20.	79/05/10.	DSD - CENTRAL MEMORY CHANGES.		
109	9A6	PP (6227)	51	4153	79/06/20.	79/05/10.	DSD - ECS MEMORY CHANGES.		
110	9A7	PP (6227)	40	4370	79/06/20.	79/05/10.	DSD - CHANNEL COMMANDS.		
111	CVL	PP (1100)	524	1327	79/07/12.	78/04/10. 79/07/12.	COMMON VALIDATION INTERFACE FOR NOS.		
112	SLL	PP (1100)	1043	6024	79/06/20.	79/05/10.	SYSTEM LIBRARY LOADER.		
113	BCL	PP (1421)	167	0207	79/06/20.	79/05/10.	STL - BUFFER CONTROLLER LOADER.		
114	BCS	PPU (00)	3147	4577	79/06/09.	844 FIRMWARE MA710-A13 (52706607) (79/03/9)			
115	BCF	PPU (00)	3147	5672	79/06/09.	844 FIRMWARE MA401-A05 (24616082) (79/03/9)			
116	FMD	PPU (00)	5515	6640	79/06/09.	885 FIRMWARE MA721-A01 (11897303) (79/02/27)			
117	LSL	PP (1414)	71	5102	79/06/20.	79/05/10.	STL - COPY SYSTEM TAPE.		
118	SYSEDIT	ABS	4311	6736	79/06/20.	76/10/24. 79/05/09.	SYSTEM LIBRARY FILE MANAGER.		
	SYSEDIT	4155							
	RFL=	57160							
	SSJ=	236							
119	LIBDECK	TEXT	237	0434					
	LIBDECK								
	*CM	PP/CIO,2CA,2CB,2CC,2CD,2CE,2CF,2CG,2CH,2CI							
	*CM	PP/1AJ,TCS,3AE,3AF,LDR							
	*CM	PP/LDD,LDQ							
	*CM	PP/1CK,1MA,0BF,0DF,0AV,0RP,0FA,0RF							
	*CM	PP/LFM,3LB,3LF,3LG							
	*CM	PP/RPV							
	*CM	PP/1RI,3RH,1RO,3RP,3RQ							

\*CM PP/PFM,3PA,3PB,3PD,3PG,3PI,3PK  
 \*CM PP/1TA,3TK,3TJ,1TO,2TO  
 \*CM PP/1MT,3MG,3MH,3ML,3MT  
 \*CM PP/1LS,1DC  
 \*CM PP/1TO,1SJ,1SP,QAC,3QS  
 \*CM PP/1DL,9A1,9A5,9A6,9A7 (DSD RELATED)  
 \*CM OVL/LDC  
 \*PROC LIBMOD,GENVAL,GENHELP,MOVEPF  
 \*FL ABS/FTN-6410,ABS/BASIC-6250,ABS/CDCS2-6565,ABS/DDLF-6540  
 \*FL ABS/NVF-42,ABS/DDL3-6540,ABS/PLI-6600,ABS/DML-6540  
 \*FL ABS/FILE-6030,ABS/ALGOL-6500,ABS/ALGEDIT-6400,ABS/COBOL-6630  
 \*FL ABS/COPYCL-6370,ABS/COBOL5-6600,ABS/SIFT-6410,ABS/DDL-6540  
 \*FL ABS/ESTMATE-6370,ABS/SISTAT-6210,ABS/IXGEN-6650,ABS/DFRCV-6650  
 \*FL ABS/COPY8P-6200,ABS/SORTMRG-6600,ABS/QU-6600,ABS/REPORT-6420  
 \*FL ABS/ALGOL5-6450,F45-6600,F1N5-6520,CDCSBTF-6515  
 \*FL ABS/PMDHP-6410  
 \*SC ABS/REPORT,QUMIP,DDLF,DHL,F45  
 \*SC ABS/COMPASS,FILE,SYMPL,COBOL5,F1N5  
 \*SC ABS/UPDATE,COPYL,ITEMIZE,DFRCV,DFRST  
 \*SC ABS/ALGOL,COBOL,FTN,SIMULA,SORTMRG  
 \*SC ABS/NDA,NDLP,LFG,REPORTR,SCRIPT,STIM,DLFP  
 \*SC ABS/COPY8P,QU,DDL,BASIC  
 \*SC ABS/ESTMATE,SISTAT,IXGEN,ALGOL5  
 \*SC OVL/RUN  
 \*SC ABS/DDL3  
 \*SC ABS/CDCS2,DBMSTRD,DBRCVR,DBQFA,DBQRFI,CDCSBTF

120 LIBDCK1 TEXT LIBDCK1

315 5547

\*CM PP/1DC  
 \*CM PP/CIO,1AJ,ODF  
 \*CM PP/9A1,9A5,9A6,9A7 (DSD RELATED)  
 \*CM PP/3MB (TAPE ERROR RECOVERY)  
 \*AD 11,PP/1DL  
 \*AD 11,PP/ORF,OFA,ORP,OBFOAV,0AU  
 \*AD 11,PP/QAC,3QS  
 \*AD 11,PP/1CJ,1CK,TCS,LDR,1MA,2MA,3AA,3AB,3AD,3AE,3AF,3AG  
 \*AD 11,PP/LDD,LDQ  
 \*AD 11,PP/2CA,2CB,2CC,2CD,2CE,2CF,2CG,2CH,2CI  
 \*AD 11,PP/1RI,3RG,3RH,3RI,1RU,3RP,3RQ  
 \*AD 11,PP/LFM,3LB,3LF,3LG  
 \*AD 11,PP/PFM,3PA,3PB,3PD,3PE,3PG,3PH,3PI,3PK  
 \*AD 11,PP/RPV,CPM,3CA,3CB,3CC  
 \*AD 11,PP/1TA,3TC,3TD,3TE,3TK,3TF,3TJ,TLX,1TO,2TO  
 \*AD 11,PP/1MT,3MG,3MH,3MI,3ML,3MN,3MT  
 \*AD 11,PP/1TO,1SJ,1SP  
 \*AD 11,PP/1LS  
 \*AD 11,ABS/FILES,PFILES,CATLIST,CTL2,CTL3,EDIT,RESEX  
 \*AD 11,ABS/ACCFAM,MODIFY,LOADER,CHARGE,COPYB,RWF  
 \*AD 11,OVL/LDC  
 \*AD 11,ABS/COMPASS  
 \*AD 11,OVL/COMP3\$,COMP3\$A,MSORT  
 \*PROC LIBMOD,GENVAL,GENHELP,MOVEPF  
 \*FL ABS/FTN-6410,ABS/BASIC-6250,ABS/CDCS2-6565,ABS/DDLF-6540  
 \*FL ABS/NVF-42,ABS/DDL3-6540,ABS/PLI-6600,ABS/DML-6540  
 \*FL ABS/FILE-6030,ABS/ALGOL-6500,ABS/ALGEDIT-6400,ABS/COBOL-6630

REC	CATALOG NAME	OF DS TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS			
	*FL		ABS/COPYCL-6370,	ABS/COBOL5-6600,	ABS/SIFT-6410,	ABS/DDL-6540			
	*FL		ABS/ESTMATE-6370,	ABS/SISTAT-6210,	ABS/IXGEN-6650,	ABS/DFRCV-6650			
	*FL		ABS/COPY8P-6200,	ABS/SORTMRG-6600,	ABS/QU-6600,	ABS/REPORT-6420			
	*FL		ABS/ALGOL5-6450,	F45-6600,	FTN5-6520,	CDCSBTF-6515			
	*FL		ABS/PMOMP-6410						
	*SC		ABS/REPORT,	QUMIP,	F45				
	*SC		ABS/DDLF,	DML					
	*SC		ABS/COMPASS,	FILE,	SYMPL,	CUBOL5,	FTN5		
	*SC		ABS/UPDATE,	COPYL,	ITEMIZE,	DFRCV,	DFRST		
	*SC		ABS/ALGOL,	COBOL,	FTN,	SIMULA,	SORTMRG		
	*SC		ABS/COPY8P,	QU,	DDL,	BASIC			
	*SC		ABS/NDA,	NDLP,	LFG,	REPORTR,	SCRIPT,	STIM,	DLFP
	*SC		ABS/ESTMATE,	SISTAT,	IXGEN,	ALGOL5			
	*SC		OVL/RUN						
	*SC		ABS/DDL3						
	*SC		ABS/CDCS2,	DBMSTRD,	DBRCVR,	DBQRFA,	DBQRFI,	CDCSBTF	
121	(00)	SUM =	63446	LIBRARY =	2				
122	1AJ	PP (1100)	140	1030	79/06/20.	78/04/10.	79/05/09.	ADVANCE JOB STATUS.	
123	LDR	PP (1100)	65	0362	79/06/20.	78/04/10.	79/05/09.	1AJ - LOAD CENTRAL PROGRAM.	
124	TCS	PP (1100)	1043	5576	79/06/20.	78/04/10.	79/05/09.	1AJ - TRANSLATE CONTROL STATEMENT.	
125	3AA	PP (1654)	403	0270	79/06/20.	78/04/10.	79/05/09.	1AJ - BEGIN JOB.	
126	3AB	PP (1654)	626	3446	79/06/20.	78/04/10.	79/05/09.	1AJ - PROCESS ERROR FLAG.	
127	3AC	PP (4642)	24	4702	79/06/20.	78/04/10.	79/05/09.	1AJ - SEARCH PERIPHERAL LIBRARY.	
128	3AD	PP (1506)	77	2571	79/06/20.	78/04/10.	79/05/09.	1AJ - SEARCH FOR OVERLAY.	
129	3AE	PP (4642)	303	3017	79/06/20.	78/04/10.	79/05/09.	1AJ - LOAD COPY ROUTINES.	
130	3AF	PP (5063)	165	0121	79/06/20.	78/04/10.	79/05/09.	1AJ - SPECIAL ENTRY POINT PROCESSING.	
131	3AG	PP (1654)	236	0055	79/06/20.	78/04/10.	79/05/09.	1AJ - SEND RESPONSE TO SUBSYSTEM.	
132	3AH	PP (5063)	12	1572	79/06/20.	78/04/10.	79/05/09.	1AJ - RETURN SPECIAL USER FILES.	
133	1CJ	PP (1100)	637	2103	79/06/20.	78/04/10.	79/05/09.	COMPLETE JOB.	
134	1RI	PP (1100)	355	0646	79/06/20.	78/04/10.	79/05/09.	ROLLIN JOB.	
135	3RG	PP (5443)	105	5541	79/06/20.	78/04/10.	79/05/09.	1RI - PROCESS SPECIAL ENTRY POINT JOBS.	
136	3RF	PP (5443)	107	6540	79/06/20.	78/04/10.	79/05/09.	1RI - PROCESS TERMINATION ERRORS.	
137	3RH	PP (5443)	244	3553	79/06/20.	78/04/10.	79/05/09.	1RI - PROCESS TXOT JOBS.	
138	3RI	PP (5443)	14	7307	79/06/20.	78/04/10.	79/05/09.	1RI - NOTIFY SUBSYSTEM OF ROLLIN.	
139	1RO	PP (1100)	470	7125	79/06/20.	78/04/10.	79/06/14.	ROLLOUT JOB.	
140	3RP	PP (4411)	403	2354	79/06/20.	78/04/10.	79/06/14.	1RO - PROCESS TXOT JOBS.	
141	3RQ	PP (4411)	43	0630	79/06/20.	78/04/10.	79/06/14.	1RO - PROCESS MTOT JOBS.	
142	1RP	PP (1100)	33	5653	79/06/20.	79/05/10.	79/06/20.	PPR - RELOAD PP RESIDENT.	
143	7SE	PP (7662)	21	6043	79/06/20.	79/05/10.	79/06/20.	PPR - PROCESS SYSTEM DEVICE ERROR.	
144	1SI	PP (1100)	161	3100	79/06/20.	79/05/10.		1SI - SUBSYSTEM INITIALIZER.	
145	1SJ	PP (1100)	351	4146	79/06/20.	78/04/10.	79/05/09.	JOB SCHEDULER.	
146	3SA	PP (3715)	75	2415	79/06/20.	78/04/10.	79/05/09.	1SJ - INITIATE SUB-SYSTEMS.	
147	1SP	PP (1100)	334	1734	79/06/20.	78/04/10.	79/05/09.	EVALUATE PRIORITIES.	
148	(00)	SUM =	10111	LIBRARY =	3				
149	1DL	PP (1100)	100	4034	79/06/20.	76/10/24.	79/05/09.	DISPLAY OVERLAY LOADER.	
150	1DS	PP (1100)	1244	4512	79/06/20.	79/05/10.		DSD REQUEST PROCESSOR.	
151	9AA	PP (0000)	43	0567	79/06/20.	79/05/10.		DSD - DISPLAY A - DAYFILE MESSAGES.	
152	9AB	PP (0000)	57	1036	79/06/20.	79/05/10.		DSD - DISPLAY B - SYSTEM STATUS.	
153	9AC	PP (0000)	20	0725	79/06/20.	79/05/10.		DSD - DISPLAYS F, G - CENTRAL MEMORY.	
154	9AD	PP (0000)	100	0442	79/06/20.	79/05/10.		DSD - DISPLAY E - EQUIPMENT STATUS TABLE	
155	9AE	PP (0000)	60	3371	79/06/20.	79/05/10.		DSD - DISPLAY E - MASS STORAGE CONFIGURA	
156	9AF	PP (0000)	70	6606	79/06/20.	79/05/10.		DSD - DISPLAY E - MASS STORAGE STATUS.	
157	9AG	PP (0000)	100	3741	79/06/20.	79/05/10.		DSD - DISPLAY E - RESOURCE MOUNTING PREV	

REC	CATALOG NAME	OF DS TYPE	FILE LENGTH	I CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	11
158	9AH	PP (0000)	77	3667	79/06/20.	79/05/10.	DSD - DISPLAY E - MAGNETIC TAPES.		
159	9AI	PP (0000)	76	2434	79/06/20.	79/05/10.	DSD - DISPLAY H - FILE NAME TABLE.		
160	9AJ	PP (0000)	63	2723	79/06/20.	79/05/10.	DSD - DISPLAY I - BATCHIO STATUS.		
161	9AK	PP (0000)	62	2701	79/06/20.	79/05/10.	DSD - DISPLAY J - CONTROL POINT STATUS.		
162	9AL	PP (0000)	46	7357	79/06/20.	79/05/10.	DSD - DISPLAY K - CENTRAL PROGRAM BUFFER		
163	9AM	PP (0000)	47	4545	79/06/20.	79/05/10.	DSD - DISPLAY M - ECS MEMORY DISPLAY.		
164	9AN	PP (0000)	31	3356	79/06/20.	79/05/10.	DSD - DISPLAY N - FILE DISPLAY.		
165	9AO	PP (0000)	63	3071	79/06/20.	79/05/10.	DSD - DISPLAY O - TRANSACTION TERMINAL S		
166	9AP	PP (0000)	46	4350	79/06/20.	79/05/10.	DSD - DISPLAY O - SUB CONTROL POINT STAT		
167	9AQ	PP (0000)	75	4252	79/06/20.	79/05/10.	DSD - DISPLAY O - TASK LIBRARY DIRECTORY		
168	9AR	PP (0000)	64	0405	79/06/20.	79/05/10.	DSD - DISPLAY P - PP REGISTERS.		
169	9AS	PP (0000)	44	4303	79/06/20.	79/05/10.	DSD - DISPLAY Q - INPUT/OUTPUT/ROLLOUT Q		
170	9AT	PP (0000)	75	2506	79/06/20.	79/05/10.	DSD - DISPLAY R - REMOTE BATCH STATUS.		
171	9AU	PP (0000)	73	6641	79/06/20.	79/05/10.	DSD - DISPLAY S - SYSTEM CONTROL INFORMA		
172	9AV	PP (0000)	76	0040	79/06/20.	79/05/10.	DSD - DISPLAY T - TIME SHARING STATUS.		
173	9AW	PP (0000)	47	4232	79/06/20.	79/05/10.	DSD - DISPLAY Y - MONITOR FUNCTIONS.		
174	9AX	PP (0000)	73	5352	79/06/20.	79/05/10.	DSD - DISPLAY Z - DIRECTORY.		
175	9AB	PP (6227)	41	3175	79/06/20.	79/05/10.	DSD - SEND DAYFILE MESSAGES.		
176	9AB	PP (6227)	24	6170	79/06/20.	79/05/10.	DSD - CONTROL POINT REQUESTS.		
177	9BA	PP (6227)	36	5423	79/06/20.	79/05/10.	DSD - CONTINUATION OF CONTROL POINT REQU		
178	9BB	PP (6227)	45	6556	79/06/20.	79/05/10.	DSD - SUBSYSTEM REQUESTS.		
179	9BC	PP (6227)	33	5330	79/06/20.	79/05/10.	DSD - TELEX MESSAGE REQUESTS.		
180	9BD	PP (6227)	42	3045	79/06/20.	79/05/10.	DSD - BATCHIO REQUESTS.		
181	9BE	PP (6227)	50	4761	79/06/20.	79/05/10.	DSD - SYSTEM REQUESTS.		
182	9BF	PP (6227)	33	7547	79/06/20.	79/05/10.	DSD - SYSTEM REQUESTS.		
183	9BG	PP (6227)	14	3746	79/06/20.	79/05/10.	DSD - JOB CALL REQUESTS.		
184	9BH	PP (6227)	23	5264	79/06/20.	79/05/10.	DSD - SYSTEM CONTROL REQUESTS.		
185	9BI	PP (6227)	35	3634	79/06/20.	79/05/10.	DSD - ENABLE SYNTAX TABLE - CHARACTERS A		
186	9BJ	PP (6227)	32	5525	79/06/20.	79/05/10.	DSD - ENABLE SYNTAX TABLE - CHARACTERS O		
187	9BK	PP (6227)	36	2473	79/06/20.	79/05/10.	DSD - DISABLE SYNTAX TABLE - CHARACTERS		
188	9BL	PP (6227)	33	4352	79/06/20.	79/05/10.	DSD - DISABLE SYNTAX TABLE - CHARACTERS		
189	9BM	PP (6227)	32	7667	79/06/20.	79/05/10.	DSD - ENABLE/DISABLE REQUESTS.		
190	9BN	PP (6227)	26	1325	79/06/20.	79/05/10.	DSD - JOB CONTROL REQUESTS.		
191	9BO	PP (6227)	30	5635	79/06/20.	79/05/10.	DSD - JOB CONTROL REQUESTS.		
192	9BP	PP (6227)	42	4143	79/06/20.	79/05/10.	DSD - JOB CONTROL REQUESTS.		
193	9BQ	PP (6227)	52	6113	79/06/20.	79/05/10.	DSD - DISPLAY CHANGE REQUESTS.		
194	9BR	PP (6227)	41	0146	79/06/20.	79/05/10.	DSD - FILE CONTROL REQUESTS.		
195	9BS	PP (6227)	15	7137	79/06/20.	79/05/10.	DSD - FILE CONTROL REQUESTS.		
196	9BT	PP (6227)	43	2477	79/06/20.	79/05/10.	DSD - RESOURCE CONTROL COMMANDS.		
197	9BU	PP (6227)	33	4727	79/06/20.	79/05/10.	DSD - ASSIGN VSN TO UNIT.		
198	9BV	PP (6227)	36	4315	79/06/20.	79/05/10.	DSD - MAINTENANCE COMMANDS.		
199	9BW	PP (6227)	31	7135	79/06/20.	79/05/10.	DSD - EQUIPMENT AVAILABILITY COMMANDS.		
200	9BX	PP (6227)	44	1412	79/06/20.	79/05/10.	DSD - MASS STORAGE VALIDATION.		
201	9BY	PP (6227)	33	7375	79/06/20.	79/05/10.	DSD - ENTER TIME.		
202	9BZ	PP (6227)	46	7360	79/06/20.	79/05/10.	DSD - ENTER DATE.		
203	DIS	PP (1100)	1300	7542	79/06/20.	76/01/11.	79/05/09.	JOB DISPLAY.	
204	9EA	PP (7006)	37	7035	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY A. - DAYFILE.	
205	9EB	PP (7006)	60	1142	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY E. - MAGNETIC TAPES.	
206	9EC	PP (7006)	16	5461	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY F. - CENTRAL MEMORY 4 GROU	
207	9ED	PP (7006)	71	7213	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY G. - CH, 4 GROUPS OF 5.	
208	9EE	PP (7006)	24	3265	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY H. - FILE NAME TABLE.	
209	9EF	PP (7006)	43	3451	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY J. - SYSTEM STATUS.	
210	9EG	PP (7006)	50	4370	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY K. - EQUIPMENT STATUS TABL	
211	9EH	PP (7006)	57	4414	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY L. - FILE NAME TABLE.	
212	9EI	PP (7006)	46	1475	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY M - ECS MEMORY DISPLAY.	
213	9EJ	PP (7006)	56	3753	79/06/20.	76/01/11.	79/05/09.	DIS - DISPLAY P. - PP REGISTERS.	



REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	12
214	9EK	PP (7006)	42	3604	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY Q. - INPUT/OUTPUT/ROLLOUT
215	9EL	PP (7006)	26	4314	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY V. - CENTRAL MEMORY BUFFER
216	9EM	PP (7006)	46	2133	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY Y. - MONITOR FUNCTIONS.
217	9EN	PP (7006)	67	0335	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY Z. - DIRECTORY.
218	9EO	PP (7443)	25	7351	79/06/20.	76/01/11.	79/05/09.	DIS	- CPU COMMANDS.
219	9EP	PP (7443)	34	4466	79/06/20.	76/01/11.	79/05/09.	DIS	- STATEMENT ENTRY.
220	9EQ	PP (7443)	31	2712	79/06/20.	76/01/11.	79/05/09.	DIS	- EXECUTE STATEMENTS.
221	9ER	PP (7443)	30	1544	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER REGISTER.
222	9ES	PP (7443)	30	3607	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER X REGISTER.
223	9ET	PP (7443)	36	2347	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER MEMORY.
224	9EU	PP (7443)	33	6542	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER INSTRUCTION.
225	9EV	PP (7443)	35	4301	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER ECS.
226	9EW	PP (7443)	17	7551	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER MEMORY/ENTER INSTRUCTION EXI
227	9EX	PP (7443)	23	7172	79/06/20.	76/01/11.	79/05/09.	DIS	- CPU PROGRAM INTERFACE COMMANDS.
228	9EY	PP (7443)	35	1333	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER FIELD LENGTH.
229	9EZ	PP (7443)	37	0230	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER ECS FIELD LENGTH.
230	9EO	PP (7443)	34	6164	79/06/20.	76/01/11.	79/05/09.	DIS	- CALL Q26 TO CONTROL POINT.
231	9E1	PP (7443)	20	3374	79/06/20.	76/01/11.	79/05/09.	DIS	- MISCELLANEOUS COMMANDS.
232	9E2	PP (7443)	34	2532	79/06/20.	76/01/11.	79/05/09.	DIS	- MISCELLANEOUS COMMANDS.
233	9E3	PP (7443)	25	0306	79/06/20.	76/01/11.	79/05/09.	DIS	- INTERPRET KEYSER MESSAGE.
234	9E4	PP (7443)	22	6615	79/06/20.	76/01/11.	79/05/09.	DIS	- CHECK KEYBOARD REQUEST.
235	9FA	PP (7443)	24	5105	79/06/20.	76/01/11.	79/05/09.	DIS	- INTERPRET MORE MESSAGES.
236	9FB	PP (7443)	20	7762	79/06/20.	76/01/11.	79/05/09.	DIS	- CALL PPU PROGRAM.
237	026	PP (1100)	1277	4214	79/06/20.	78/04/10.	79/05/09.	CONSOLE	TEXT EDITOR.
238	9GA	PP (6343)	65	2550	79/06/20.	78/04/10.	79/05/09.	026	- FILE COMMANDS.
239	9GB	PP (6343)	67	3375	79/06/20.	78/04/10.	79/05/09.	026	- LINE ENTRY AND DATA MOVE.
240	9GC	PP (6343)	63	1007	79/06/20.	78/04/10.	79/05/09.	026	- DISPLAY, TAB, DUP AND SCAN CONTROL
241	9GD	PP (6343)	52	3162	79/06/20.	78/04/10.	79/05/09.	026	- LINE SEARCH COMMANDS.
242	9GE	PP (6343)	11	4224	79/06/20.	78/04/10.	79/05/09.	026	- SEQUENTIAL RECORD SEARCH COMMANDS.
243	9GF	PP (6343)	73	0770	79/06/20.	78/04/10.	79/05/09.	026	- RANDOM RECORD SEARCH COMMANDS.
244	9GG	PP (6343)	65	6267	79/06/20.	78/04/10.	79/05/09.	026	- REPLACE COMMANDS.
245	9GH	PP (6343)	7	6451	79/06/20.	78/04/10.	79/05/09.	026	- REWRITE RECORD IN PLACE.
246	9GI	PP (6343)	62	0064	79/06/20.	78/04/10.	79/05/09.	026	- MISCELLANEOUS COMMANDS.
247	(00)	SUM =	12547	LIBRARY =		4			
248	PFILES	ABS	1405	2254	79/06/20.	76/10/27.	79/05/09.		PERMANENT FILE MANIPULATOR.
	APPEND	353							
	ATTACH	377							
	CHANGE	431							
	DEFINE	461							
	GET	510							
	NEW	540							
	OLD	551							
	PACKNAM	557							
	PERMIT	574							
	PURGE	621							
	REPLACE	643							
	SAVE	667							
	RFL=	1665							
	SDM=	0							
249	PFATC1	OVL 01,00	2200	0562	79/06/20.	73/05/24.	79/05/09.		PFATC1 - CATALOG PF ARCHIVE TAPE.
250	PFCAT1	OVL 01,00	4427	7545	79/07/12.	78/04/10.	79/07/12.		PFCAT1 - CATALOG PERMANENT FILE DEVICE.
251	PFCOPY1	OVL 01,00	2301	1261	79/07/10.	73/05/24.	79/07/10.		PFCOPY1 - COPY ARCHIVE FILE UTILITY.
252	PFDUMP1	OVL 01,00	5545	7641	79/07/12.	78/04/10.	79/07/12.		PFDUMP1 - PERMANENT FILE DUMP.
253	PFL0AD1	OVL 01,00	6153	3255	79/07/12.	78/04/10.	79/07/12.		PFL0AD1 - PERMANENT FILE LOAD.

REC	CATALOG NAME	OF DS TYPE	FILE LENGTH	I CKSUM	DATE	COMMENTS
254	PFS	ABS	2412	4373	79/06/20.	73/05/24. 78/04/09. PERMANENT FILE SUPERVISOR.
	PFS	1336				
	PFLDAD	1651				
	PFDUMP	1653				
	PFCAT	1654				
	PFATC	1655				
	PFCOPY	1656				
	RFL=	2502				
	SSJ=	155				
255	PURGALL	ABS	661	7727	79/06/20.	73/05/05. 78/04/09. PURGE ALL PERMANENT FILES.
	PURGALL	147				
	RFL=	1517				
256	CMS	PP (1212)	451	0756	79/07/10.	79/05/10. 79/07/10. MSM - ON LINE MASS STORAGE MANAGER.
257	ELM	PP (1100)	117	6165	79/06/20.	78/04/10. ERROR LOG MESSAGE PROCESSOR.
258	IMS	PP (1100)	1126	0114	79/06/20.	78/04/10. 79/06/14. INITIALIZE MASS STORAGE.
259	RDM	PP (1100)	406	4705	79/06/20.	78/04/10. 79/05/09. RDM - REDEFINE MASS STORAGE.
260	IIS	PP (1100)	356	1304	79/06/20.	79/05/10. INSTALL DEADSTART FILE.
261	CONFIG	ABS	2243	4573	79/06/20.	78/04/10. CONFIGURE MASS STORAGE.
	CONFIG	126				
	RFL=	3516				
262	INSTALL	ABS	357	7776	79/06/20.	79/05/10. INSTALL DEADSTART FILE.
	INSTALL	136				
	RFL=	10530				
	SSJ=	125				
263	MSI	ABS	3635	2363	79/06/20.	78/04/10. 79/06/14. MASS STORAGE DEVICE INITIALIZATION.
	MSI	327				
	FLAN	515				
	RFL=	6260				
	SSJ=	3726				
264	PFM	PP (1100)	710	1366	79/07/03.	79/05/10. 79/07/03. PFM - PERMANENT FILE MANAGER.
265	3PA	PP (1606)	661	6030	79/07/03.	79/05/10. 79/07/03. PFM - GET PROCESSING AND RESIDENT ROUTIN
266	3PB	PP (4664)	106	6374	79/07/03.	79/05/10. 79/07/03. PFM - SAVE/REPLACE PROCESSING.
267	3PC	PP (4664)	106	2023	79/07/03.	79/05/10. 79/07/03. PFM - APPEND PROCESSING.
268	3PD	PP (4664)	220	2633	79/07/03.	79/05/10. 79/07/03. PFM - ATTACH/UATTACH PROCESSING.
269	3PE	PP (1504)	420	2056	79/07/03.	79/05/10. 79/07/03. PFM - CATLIST PROCESSING.
270	3PF	PP (4664)	164	3013	79/07/03.	79/05/10. 79/07/03. PFM - DEFINE/SETDA PROCESSING.
271	3PG	PP (4664)	201	6037	79/07/03.	79/05/10. 79/07/03. PFM - PERMIT/PURGE/DROPDS PROCESSING.
272	3PH	PP (1504)	540	5511	79/07/03.	79/05/10. 79/07/03. PFM - ERROR PROCESSING.
273	3PI	PP (1622)	172	0562	79/07/03.	79/05/10. 79/07/03. PFM - LOCAL FILE PROCESSING.
274	3PJ	PP (4664)	77	4121	79/07/03.	79/05/10. 79/07/03. PFM - CHANGE PROCESSING.
275	3PK	PP (1700)	106	0074	79/07/03.	79/05/10. 79/07/03. PFM - DEVICE TO DEVICE TRANSFER.
276	3PL	PP (2402)	76	0456	79/07/03.	79/05/10. 79/07/03. PFM - APPEND - ORIGINAL FILE TRANSFER.
277	3PM	PP (1622)	125	1622	79/07/03.	79/05/10. 79/07/03. PFM - FILE RESIDENCE PROCESSING.
278	3PN	PP (4664)	56	1065	79/07/03.	79/05/10. 79/07/03. PFM - MSS ATTACH PROCESSING.
279	3PO	PP (6776)	62	1552	79/07/03.	79/05/10. 79/07/03. PFM - ATTACH/UATTACH PRESET - READ CATAL
280	3PP	PP (4664)	107	6317	79/07/03.	79/05/10. 79/07/03. PFM - SETASA/SETAF PROCESSING.
281	PFU	PP (1100)	733	7107	79/07/10.	78/04/10. 79/07/10. PFU - PERMANENT FILE UTILITY PROCESSOR.
282	3FA	PP (3152)	512	7222	79/07/10.	78/04/10. 79/07/10. PFU - PFLDAD ROUTINES.
283	3FB	PP (3152)	105	7151	79/07/10.	78/04/10. 79/07/10. PFU - ERROR PROCESSOR.
284	1CK	PP (1100)	176	3306	79/06/20.	79/05/10. SYSTEM CHECK POINT.
285	3CK	PP (2156)	242	1722	79/06/20.	79/05/10. 1CK - SYSTEM CHECK POINT.
286	5ME	PP (7003)	36	4165	79/06/20.	78/04/10. MS VALIDATION ERROR PROCESSOR.
287	(00)	SUM =	52664	LIBRARY =	5	
288	CPM	PP (1100)	515	4266	79/06/20.	78/04/10. 79/05/09. CONTROL POINT MANAGER.
289	3CA	PP (1615)	265	6401	79/06/20.	78/04/10. 79/05/09. CPM - USER VALIDATION FUNCTIONS.

REC	CATALOG OF DS NAME	DS TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	14
290	3CB	PP (1615)	275	4751	79/06/20.	78/04/10.	79/05/09.	CPM - USER ACCOUNTING FUNCTIONS.	
291	3CC	PP (1615)	60	2120	79/06/20.	78/04/10.	79/05/09.	CPM - LOADER/MISCELLANEOUS FUNCTIONS.	
292	EXU	PP (1100)	126	4227	79/06/20.	70/12/20.	79/05/09.	EXECUTE *COS* FORMAT PROGRAM.	
293	LDD	PP (1100)	425	7431	79/06/20.	78/01/13.		LDD - LOAD FAST DYNAMIC LOAD DIRECTORIES	
294	LDD	PP (1100)	167	6466	79/06/20.	78/01/13.		LDQ - LOAD QUICKLY.	
295	2LD	PP (1100)	56	6717	79/06/20.	78/01/13.		LDD/LDQ - ERROR PROCESSOR.	
296	LFM	PP (1100)	274	0125	79/06/20.	78/04/10.	79/05/09.	LOCAL FILE MANAGER.	
297	3LA	PP (1761)	104	3336	79/06/20.	78/04/10.	79/05/09.	LFM - ERROR PROCESSOR.	
298	3LB	PP (1761)	267	2524	79/06/20.	78/04/10.	79/05/09.	LFM - LOCAL FILE FUNCTIONS.	
299	3LC	PP (1761)	266	2040	79/06/20.	78/04/10.	79/05/09.	LFM - EQUIPMENT REQUESTS.	
300	3LD	PP (1761)	100	2754	79/06/20.	78/04/10.	79/05/09.	LFM - COMMON FILE FUNCTIONS.	
301	3LE	PP (1761)	360	1701	79/06/20.	78/04/10.	79/05/09.	LFM - FILE DISPOSAL FUNCTIONS.	
302	3LF	PP (1761)	201	0054	79/06/20.	78/04/10.	79/05/09.	LFM - CONTROL STATEMENT FILE FUNCTIONS.	
303	3LG	PP (1761)	150	1424	79/06/20.	78/04/10.	79/05/09.	LFM - GETFNT AND PRIMARY FUNCTIONS.	
304	SFM	PP (1100)	1004	7431	79/06/20.	76/01/11.	79/05/09.	SYSTEM FILE MANAGER.	
305	3SZ	PP (3070)	347	5040	79/06/20.	76/01/11.	79/05/09.	SFM - FAST ATTACH PROCESSORS.	
306	SFP	PP (1100)	31	4605	79/06/20.	78/04/10.	79/05/09.	SCOPE FUNCTION PROCESSOR.	
307	2SA	PP (1143)	172	6314	79/06/20.	78/04/10.	79/05/09.	SFP - STS - STATUS PROCESSOR..	
308	2SB	PP (1143)	764	2072	79/06/20.	78/04/10.	79/05/09.	SFP - MSD - SDA/SIS MESSAGE GENERATOR..	
309	2SC	PP (1143)	57	1105	79/06/20.	78/04/10.	79/05/09.	SFP - PFE - EXTEND/ALTER FUNCTION..	
310	2SD	PP (1143)	111	4603	79/06/20.	78/04/10.	79/05/09.	SFP - ACE - ADVANCE CONTROL CARD..	
311	2SE	PP (1143)	22	2425	79/06/20.	78/04/10.	79/05/09.	SFP - PRM - PERMISSION CHECKING FUNCTION	
312	2SF	PP (1143)	16	2013	79/06/20.	78/04/10.	79/05/09.	SFP - SRP - SPECIAL REQUEST PROCESSING..	
313	2SG	PP (1143)	100	6657	79/06/20.	78/04/10.	79/05/09.	SFP - ERP - ERROR PROCESSOR..	
314	2SH	PP (1143)	170	6450	79/06/20.	78/04/10.	79/05/09.	SFP - DOO - EXTRACT ERROR TEXT..	
315	2SI	PP (1143)	11	5120	79/06/20.	78/04/10.	79/05/09.	SFP - FIN - FILE INFORMATION REQUEST..	
316	RPV	PP (1100)	277	2123	79/06/20.	78/04/10.	79/05/09.	REPRIEVE CENTRAL PROGRAM.	
317	2RP	PP (1100)	42	0052	79/06/20.	78/04/10.	79/05/09.	RPV - ERROR PROCESSOR.	
318	(00)	SUM =	10461	LIBRARY =		6			
319	ACCFAM	ABS	422	2374	79/06/20.	78/04/10.		USER AND FAMILY CARD PROCESSOR.	
	ACCOUNT	111							
	FAMILY	224							
	USER	111							
	VAL=	0							
	SDM=	0							
	RFL=	523							
	SSJ=	252							
320	CHARGE	ABS	2042	1526	79/06/20.	76/10/27.	78/10/06.	JOB PROFILE VALIDATION PROGRAM.	
	CHARGE	1213							
	ARG=	0							
	VAL=	0							
	RFL=	2144							
	SSJ=	1014							
321	ISF	ABS	1216	2357	79/06/20.	79/05/10.		INITIALIZE SYSTEM FILES.	
	ISF	132							
	RFL=	2137							
	SSJ=	125							
322	MODVAL	ABS	13555	1313	79/06/20.	76/01/11.	79/05/09.	USER VALIDATION FILE MANAGER.	
	MODVAL	14567							
	LIMITS	14551							
	PASSWOR	14560							
	SDM=	0							
	RFL=	17673							
	SSJ=	14372							

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	15
323	PROFILE	ABS	7013	6457	79/06/20.	76/09/21.	79/05/09.	PROJECT PROFILE MANAGER.	
	PROFILE	10375							
	ARG=	10375							
	RFL=	13614							
	SSJ=	2516							
324	SFS	OVL 01,00	1724	7604	79/06/20.	73/05/24.	79/05/09.	SPECIAL SYSTEM FILE SUPERVISOR.	
325	OAV	PP (0000)	173	7537	79/06/20.	76/10/24.	79/05/09.	VERIFY USER ACCOUNT NUMBER.	
326	OAU	PP (0000)	75	1535	79/06/20.	76/10/24.	79/05/09.	UPDATE PROJECT PROFILE FILE.	
327	OVJ	PP (0000)	275	2500	79/06/20.	79/05/10.		VERIFY JOB/USER STATMENT.	
328	(00)	SUM =	31203	LIBRARY =		7			
329	VEJ	PP (1100)	214	5325	79/06/20.	76/10/24.	79/05/09.	VEJ - VERIFY JOB FILE INFORMATION.	
330	OAC	PP (1100)	362	2101	79/06/20.	78/04/10.	79/05/09.	OAC - QUEUE ACCESS.	
331	3QR	PP (6000)	36	0250	79/06/20.	78/01/30.		OAC - ERROR PROCESSOR.	
332	3QS	PP (3370)	66	2343	79/06/20.	78/01/30.		OAC - ATTACH QUEUED FILE.	
333	3QT	PP (3370)	220	4767	79/06/20.	78/01/30.		OAC - ALTER QUEUED FILE.	
334	3QU	PP (3370)	161	5512	79/06/20.	78/01/30.		OAC - PEEK/COUNT QUEUED FILES.	
335	DSP	PP (1100)	1010	2115	79/06/20.	76/10/24.	79/06/14.	DSP - DISPOSE FILE TO I/O QUEUE.	
336	3DA	PP (1453)	173	4472	79/06/20.	76/10/24.	79/06/14.	DSP - ERROR PROCESSOR.	
337	QAP	PP (1100)	366	2154	79/06/20.	78/01/18.		QUEUE AUXILLARY PROCESSOR.	
338	3BA	PP (3274)	120	3346	79/06/20.	78/01/18.		QAP - ACCOUNTING.	
339	3BB	PP (3274)	113	1571	79/06/20.	78/01/18.		QAP - LOAD PRINTER PFC IMAGE MEMORY.	
340	3BC	PP (3274)	137	1411	79/06/20.	78/01/18.		QAP - GENERATE LACE CARD.	
341	3BD	PP (3274)	54	6547	79/06/20.	78/01/18.		QAP - PROCESS OPERATOR REQUEST.	
342	3DE	PP (3274)	43	3431	79/06/20.	78/01/18.		QAP - CHANNEL ERROR CLEANUP.	
343	3BF	PP (4056)	142	1604	79/06/20.	78/01/18.		QAP - RELOAD 580 PFC MEMORY.	
344	5BA	PP (6767)	42	2317	79/06/20.	78/01/18.		QAP - 580 PFC IMAGE ARRAY.	
345	5BB	PP (6767)	42	0231	79/06/20.	78/01/18.		QAP - 580 PFC IMAGE ARRAY.	
346	1CD	PP (1100)	1103	7240	79/06/20.	78/01/18.		BATCHIO COMBINED DRIVER.	
347	110	PP (1100)	230	7657	79/06/20.	79/05/10.		BATCHIO MANAGER.	
348	31A	PP (2534)	140	7025	79/06/20.	79/05/10.		110 - SUBROUTINES.	
349	31B	PP (3753)	43	6623	79/06/20.	79/05/10.		110 - LOAD PRINTER IMAGE MEMORY.	
350	31C	PP (4212)	144	4537	79/06/20.	79/05/10.		110/31C - ERROR SUBROUTINES.	
351	31D	PP (2534)	213	4172	79/06/20.	79/05/10.		110/31D - BATCHIO PRESET.	
352	51A	PP (4212)	74	5251	79/06/20.	79/05/10.		110 - 512 595-1 IMAGE MEMORY.	
353	51C	PP (4212)	74	5424	79/06/20.	79/05/10.		110 - 512 595-4, 595-5 IMAGE MEMORY.	
354	51D	PP (4212)	74	4076	79/06/20.	78/12/01.	110 - 512 595-6 IMAGE MEMORY.		
355	51E	PP (4212)	117	3727	79/06/20.	79/05/10.		110 - 580 596-1 IMAGE MEMORY.	
356	51G	PP (4212)	117	1275	79/06/20.	79/05/10.		110 - 580 596-4, 596-5 IMAGE MEMORY.	
357	51H	PP (4212)	117	0426	79/06/20.	78/12/01.	110 - 580 596-6 IMAGE MEMORY.		
358	(00)	SUM =	7051	LIBRARY =		8			
359	(00)	SUM =	0	LIBRARY =		9			
360	(00)	SUM =	0	LIBRARY =		10			
361	TLX	PP (1100)	131	1703	79/06/20.	73/06/19.	75/03/23.	TERMINAL ACTION PROCESSOR.	
362	1TA	PP (1100)	255	0724	79/07/03.	78/04/10.	79/07/03.	IAF AUXILIARY FUNCTION PROCESSOR.	
363	3TA	PP (2561)	21	3473	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - ADJUST *TELEX* FIELD LEN	
364	3TB	PP (2561)	103	6317	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - RETURN TERMINAL JOB.	
365	3TC	PP (2561)	302	0700	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - CREATE ROLLOUT FILE.	
366	3TD	PP (2561)	137	1632	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - TERMINAL LOGOUT PROCCSSO	
367	3TE	PP (7006)	65	0135	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - DISPLAY ACCOUNTING MESSA	
368	3TF	PP (4076)	46	1464	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - ISSUE USER MESSAGE.	
369	3TG	PP (2561)	140	4344	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - PARTIAL LOGOUT PROCESSOR	
370	3TH	PP (2561)	23	7407	79/07/03.	78/04/10.	79/07/03.	77/06/03. 1TA - INCREMENT RESOURCE LIMIT	

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	16
371	3TI	PP (2561)	253	6027	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - TERMINAL RECOVERY PROCES
372	3TJ	PP (2561)	206	1531	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - JOB SCHEDULING.
373	3TK	PP (2561)	115	2123	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - GATHER STATISTICS.
374	3TL	PP (2561)	114	6214	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - CLEAN UP SALVARE FILE.
375	3TM	PP (2561)	101	6175	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - REPACK RECOVERY FILE (IN
376	3TN	PP (2561)	41	3507	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - RETURN JOB STATUS.
377	1TO	PP (1100)	366	4720	79/06/20.	78/04/10.	79/06/14.		TERMINAL INPUT/OUTPUT.
378	2TO	PP (3236)	326	3332	79/06/20.	78/04/10.	79/06/14.		1TO/2TO - NETWORK PROCESSING ROUTINES.
379	TCOMND	ABS	112	2506	79/06/20.	74/09/06.	76/01/11.		TERMINAL COMMAND PROCESSOR.
	ASCLL	120							
	CSET	123							
	PARITY	132							
	RFL=	225							
380	VALNET	OVL 00,00	6225	0747	79/06/20.	72/06/14.			VALIDATE TERMINAL DESCRIPTION FILE.
381	(00)	SUM =	12040	LIBRARY =	11				
382	BLANK	ABS	1262	1532	79/06/20.	76/10/27.	78/04/09.		BLANK TAPE LABELING PROGRAM.
	BLANK	110							
	ARG=	1365							
	RFL=	1502							
	SSJ=	1343							
383	MAGNET	ABS	1567	4326	79/06/20.	78/04/10.	79/05/09.		MAGNETIC TAPE EXECUTIVE.
	MAGNET	1576							
	RFL=	7777							
384	MAGNET1	ABS	533	5326	79/06/20.	78/04/10.	79/05/09.		MAGNETIC TAPE EXECUTIVE TERMINATION.
	MAGNET1	7000							
	MFL=	7777							
	SSJ=	0							
385	RESEX	ABS	6027	0203	79/06/20.	78/04/10.	79/05/09.		RESOURCE EXECUTIVE.
	ASSIGN	5170							
	LABEL	4074							
	REQUEST	5205							
	RESOURC	4225							
	VSN	4311							
	LFM	4322							
	PFM	5210							
	REQ	4355							
	ARG=	236							
	DMP=	100000							
	RFL=	7312							
	SSJ=	224							
386	1LT	PP (1100)	217	7642	79/06/20.	78/04/10.	79/05/09.		1MT - LONG BLOCK HELPER PROCESSOR.
387	1MT	PP (1100)	354	5275	79/06/20.	78/04/10.	79/05/09.		PPU MAGNETIC TAPE EXECUTIVE.
388	3MA	PP (1600)	1173	7044	79/06/20.	78/04/10.	79/05/09.		1MT - INITIALIZE TAPE EXECUTIVE.
389	3MB	PP (6602)	130	6642	79/06/20.	78/04/10.	79/05/09.		1MT - FUNCTION REJECT PROCESSOR.
390	3MC	PP (6602)	176	7621	79/06/20.	78/04/10.	79/05/09.		1MT - ERRLOG MESSAGE PROCESSOR.
391	3MD	PP (6602)	167	0350	79/06/20.	78/04/10.	79/05/09.		1MT - MTS/ATS ERRLOG MESSAGE PROCESSOR.
392	3ME	PP (7302)	41	5701	79/06/20.	78/04/10.	79/05/09.		1MT - MTS/ATS SPECIAL MESSAGE PROCESSOR.
393	3MF	PP (2775)	450	0543	79/06/20.	78/04/10.	79/05/09.		1MT - LOAD CONVERSION MEMORY.
394	3MG	PP (2147)	31	5145	79/06/20.	78/04/10.	79/05/09.		1MT - DROP PPU PROCESSOR.
395	3MH	PP (6602)	143	3644	79/06/20.	78/04/10.	79/05/09.		1MT - CONTROL POINT/CODED PRESET.
396	3MI	PP (2147)	70	0263	79/06/20.	78/04/10.	79/05/09.		1MT - COMPLETE USER FET.
397	3MJ	PP (2147)	436	5340	79/06/20.	78/04/10.	79/05/09.		1MT - ISSUE USER MESSAGE(S).
398	3MK	PP (2147)	547	3433	79/06/20.	78/04/10.	79/05/09.		1MT - USER JOB OPERATIONS.
399	3ML	PP (2147)	335	0434	79/06/20.	78/04/10.	79/05/09.		1MT - READ FUNCTION PROCESSOR.
400	3MM	PP (2772)	246	1121	79/06/20.	78/04/10.	79/05/09.		1MT - READ LONG BLOCK PROCESSOR.

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
401	3MN	PP (2525)	741	0360	79/06/20.	78/04/10. 79/05/09. 1MT - READ LABEL PROCESSOR.
402	3MO	PP (5703)	74	0155	79/06/20.	78/04/10. 79/05/09. 1MT - MULTI-FILE AUXILIARY PROCESSOR.
403	3MP	PP (2147)	416	6104	79/06/20.	78/04/10. 79/05/09. 1MT - OPEN OPERATIONS.
404	3MQ	PP (2412)	213	5542	79/06/20.	78/04/10. 79/05/09. 1MT - TAPE POSITIONING OPERATIONS.
405	3MR	PP (3755)	435	0410	79/06/20.	78/04/10. 79/05/09. 1MT - MMTS READ ERROR PROCESSOR
406	3MS	PP (3755)	501	2336	79/06/20.	78/04/10. 79/05/09. 1MT - MTS/ATS READ ERROR PROCESSOR.
407	3MT	PP (2147)	333	7227	79/06/20.	78/04/10. 79/05/09. 1MT - WRITE FUNCTION PROCESSOR.
408	3MU	PP (2777)	232	2342	79/06/20.	78/04/10. 79/05/09. 1MT - WRITE LONG BLOCK PROCESSOR.
409	3MV	PP (3052)	334	1151	79/06/20.	78/04/10. 79/05/09. 1MT - WRITE LABEL PROCESSOR.
410	3MW	PP (3760)	342	5513	79/06/20.	78/04/10. 79/05/09. 1MT - MMTS WRITE ERROR PROCESSOR.
411	3MX	PP (3760)	442	4010	79/06/20.	78/04/10. 79/05/09. 1MT - MTS/ATS WRITE ERROR PROCESSOR.
412	3MY	PP (2342)	25	7753	79/06/20.	78/04/10. 79/05/09. 1MT - TAPE MONITORING PRESET.
413	FIRM66X	PPU (00)	3147	3424	78/03/21.	
414	(00)	SUM =	27710	LIBRARY =		12
415	CATALOG	ABS	1557	0416	79/06/20.	75/03/20. 78/10/06. CATALOG FILE.
	CATALOG	201				
	RFL=	10606				
	SSM=	0				
416	CATLIST	ABS	2451	4354	79/06/20.	79/05/10. CATALOG PERMANENT FILES.
	CATLIST	2361				
	RFL=	4103				
417	CHKPT	ABS	1636	3712	79/06/20.	76/10/27. 79/05/09. CENTRAL MEMORY CHECKPOINT.
	CKP	260				
	SFP	0				
	DMP=	0				
	RFL=	10115				
	SSJ=	253				
418	CONTROL	ABS	1330	6365	79/06/20.	78/04/10. 79/05/09. JOB CONTROL PROCESSOR.
	COMMENT	136				
	EXIT	137				
	MFL	145				
	MODE	165				
	NOEXIT	204				
	NORERUN	211				
	ONEXIT	217				
	ONSW	220				
	OFFSW	242				
	PROTECT	243				
	RERUN	266				
	RFL	274				
	ROLLOUT	303				
	SETASL	356				
	SETJSL	357				
	SETPR	320				
	SETTL	327				
	SUI	360				
	SWITCH	220				
	USECPU	367				
	RFL=	1430				
419	CTL2	ABS	1245	5550	79/06/20.	78/04/10. 79/05/09. CONTROL STATEMENT BRANCH PROCESSOR.
	CALL	146				
	GOTO	254				
	RFL=	4436				
	SSJ=	40000				

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	79/10/31. 08.56.15. COMMENTS	PAGE	18
420	CTL3 ABS IF 117 RFL= 1536 ARG= 1536	1040	1302	79/06/20.	78/04/10. 79/05/09. EXPRESSION EVALUATION PROCESSOR.		
421	CONVERT ABS CONVERT 130 RFL= 7600	1532	7273	79/06/20.	75/04/20. 78/04/09. CONVERT FILES.		
422	COPYB ABS COPY 230 COPYBF 232 COPYEI 234 COPYBR 1606 COPYX 1623 TCOPY 2022 RFL= 12152 SSM= 0	4114	6770	79/06/20.	77/03/21. 79/05/09. BINARY FILE COPIES.		
423	COPYC ABS COPYSBF 174 COPYCF 145 COPYCR 161 RFL= 5165 SSM= 0	712	5610	79/06/20.	78/04/10. CODED FILE COPIES.		
424	COPY67 ABS COPY67 110 RFL= 5520	454	2703	79/06/20.	70/06/06. 71/02/14. COPY 6600 TAPES TO 7600 FORMAT.		
425	COPY76 ABS COPY76 110 RFL= 5550	444	0474	79/06/20.	70/06/06. 71/02/14. COPY 7600 TAPES TO 6600 FORMAT.		
426	CPMEM ABS DED 205 DEP 206 DMDECS 205 DMPECS 201 DMD 250 DMP 251 LBC 336 LOC 354 PBC 434 RBR 477 WBR 562 DMP= 10053 MFL= 5300	5170	5626	79/06/20.	72/12/10. CONTROL POINT MEMORY UTILITIES.		
427	CVLCP ABS CVL 113 DMP= 100000 RFL= 252 SSJ= 0	147	7107	79/06/20.	78/08/10. CVL SCP COMMUNICATIONS.		
428	DAYFILE ABS DAYFILE 206 AFD 200 DFD 214 ELD 222 ARG= 1021 RFL= 10114	2172	5471	79/06/20.	76/01/09. 78/04/09. DUMP DAYFILES.		
429	DOCMNT ABS DOCMNT 244	3476	6356	79/06/20.	70/08/25. 79/05/09. DOCMNT - INTERNAL/EXTERNAL DOCUMENTATIO		

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	19
430	MFL= 211445 EDIT ABS EDIT 4140 RFL= 11725 SSM= 0	4436	3350	79/06/20.	76/10/25. 79/05/09. TIME SHARING TEXT EDITOR.			
431	ENQUIRE ABS ENQUIRE 2207 LENGTH 2210 STATUS 2215 SUMMARY 2216 RFL= 3317 SSJ= 0	2341	2665	79/06/20.	75/05/08. 79/05/09. 75/02/16. ENQUIRE ABOUT JOB STATUS.			
432	FCOPY ABS FCOPY 147 RFL= 4456	1201	1217	79/06/20.	79/05/10. FCOPY - FILE COPY.			
433	FILES ABS BKSP 175 COMMON 202 DISPOSE 214 EVICT 365 LOCK 372 OUT 377 PRIMARY 404 RENAME 412 SKIPEI 436 SKIPF 443 SKIPFB 452 SKIPR 457 SETID 422 UNLOCK 464 WRITEF 471 WRITER 476 RFL= 710	562	3716	79/06/20.	73/06/12. 79/05/09. LOCAL FILE MANIPULATOR.			
434	FNTLST1 OVL 01,00	2414	5124	79/06/20.	78/04/10. 79/05/09. FNTLIST - LIST ACTIVE QUEUED FILES.			
435	HELP ABS HELP 2423 RFL= 3025	2421	6136	79/06/20.	71/03/02. 77/10/19. PROCESS HELP FOR TS USER.			
436	GTR ABS GTR 176 COPYRF 247 MFL= 225656	1717	6060	79/06/20.	73/05/17. 79/05/09. GET SELECTED RECORDS.			
437	LIBEDIT ABS LIBEDIT 111 SSM= 0	4542	1065	79/06/20.	79/05/10. LIBRARY EDITING PROGRAM.			
438	LISTLB ABS LISTLB 135 RFL= 3413 ARG= 1032	1354	1347	79/06/20.	76/10/27. 78/10/06. LIST MAGNETIC TAPE LABELS.			
439	LIST80 ABS LIST80 476 RFL= 5457	1411	0536	79/06/20.	79/05/10. COMPRESS COMPASS LISTINGS.			
440	LO72 ABS LO72 2277 RFL= 4056	3342	0015	79/06/20.	70/08/01. COMPRESS OUTPUT FILES.			
441	MFILES ABS CLEAR 163	277	0643	79/06/20.	79/05/10. MULTIPLE FILE PROCESSOR.			



REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	20
	RETURN	164						
	REWIND	165						
	UNLOAD	166						
	RFL=	764						
442	MSORT	OVL 00,00	262	6611	79/06/20. 78/04/10.			
443	NOTE	ABS	503	6436	79/06/20. 78/04/10.			MULTI-TERMINAL SORT ROUTINE. ENTER DELIMITED LINES INTO FILE.
	NOTE	126						
	ENTER	116						
	RFL=	710						
444	PACK	ABS	444	1142	79/06/20. 76/01/11. 78/07/20.			PACK FILE TO ONE RECORD.
	PACK	102						
	RFL=	2645						
445	RESEQ	ABS	1670	5454	79/06/20. 79/05/10.			TIME SHARING RESEQUENCE ROUTINE.
	RESEQ	1664						
	RFL=	6000						
446	RESTART	ABS	1412	3750	79/06/20. 73/09/25. 79/05/09.			RESTART CHECKPOINTED JOB.
	RESTART	147						
	DMP=	450000						
	RFL=	10121						
	SSJ=	400000						
447	ROUTE	ABS	520	3516	79/06/20. CONTROL DATA CORPORATION. 1976.			
	ROUTE	212						
	RFL=	630						
448	SORT	ABS	773	7514	79/06/20. 76/01/11. 77/06/09.			FILE SORT ROUTINE
	SORT	140						
	MFL=	214000						
449	SUBMIT	ABS	1604	1162	79/06/20. 75/04/20. 78/10/06.			ENTER JOB IN INPUT QUEUE.
	SUBMIT	172						
	RFL=	10042						
450	TDUMP	ABS	1175	6704	79/06/20. 73/05/05. 78/10/06.			FILE DUMP.
	TDUMP	1112						
	RFL=	6140						
451	TRMDEF	ABS	1504	7526	79/06/20. 79/02/22.			DEFINE TERMINAL CHARACTERISTICS.
	TRMDEF	120						
	RFL=	1611						
452	VERIFY	ABS	2042	6541	79/06/20. 77/03/16. 78/10/06.			VERIFY FILES.
	VERIFY	232						
	RFL=	13220						
	SSM=	0						
453	VFYLIB	ABS	1502	0610	79/06/20. 79/05/10.			VERIFY LIBRARY FILES.
	VFYLIB	135						
	MFL=	220643						
	SSM=	0						
454	OUT	PP (1100)	275	5473	79/06/20. 75/03/20. 79/05/09.			RELEASE OUTPUT FILES.
455	(00)	SUM =	107614		LIBRARY = 13			
456	KRONREF	ABS	2120	3675	79/06/20. 78/04/10.			KRONOS SYSTEM CROSS REFERENCE PROGRAM.
	KRONREF	151						
	MFL=	234116						
457	MODIFY	ABS	7621	0621	79/06/20. 75/04/20. 79/05/09.			SOURCE LIBRARY EDITING PROGRAM.
	MODIFY	361						
	RFL=	37063						
458	OPLDIT	ABS	10473	6444	79/06/20. 75/03/20. 79/05/09.			OPL EDITING PROGRAM.
	OPLDIT	252						
	MFL=	222157						

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	21
459	COMPASS	ABS	705	0043	79/06/09.	CYBER 70/ MODEL 74	COMPREHENSIVE ASSEMBLER PROGRAM VERSION		
	COMPASS	355							
	ARG=	1							
	MFL=	10000							
460	COMP34	OVL 01,00	7636	0402	79/06/09.	CYBER 70/ MODEL 74	COMPREHENSIVE ASSEMBLER PROGRAM VERSION		
461	COMP34A	OVL 01,01	14312	6165	79/06/09.	CYBER 70/ MODEL 74	COMPREHENSIVE ASSEMBLER PROGRAM VERSION		
462	UPDATE	ABS	15121	1432	79/06/19.				
	UPDATE	10626							
	RFL=	35000							
463	COPYL	ABS	1577	2610	79/06/19.	MERGE RECORDS FROM MASTER AND CORR. FILES.			
	COPYL	212							
	COPYLM	211							
	RFL=	12000							
464	ITEMIZE	ABS	2212	0324	79/06/19.	LIST CONTENTS OF A BINARY FILE.			
	ITEMIZE	2070							
	RFL=	20000							
465	(00)	SUM =	70643	LIBRARY =	14				
466	NOSTEXT	OVL 01,01	5767	7550	79/06/20.	76/10/24.	SYSTEM COMMUNICATION TEXT.		
467	ECSTEXT	OVL 01,01	206	3352	79/06/20.	78/04/10.	USER ECS INTERPRETIVE MODE TEXT.		
468	PPTEXT	OVL 01,01	1276	2453	79/06/20.	76/10/24.	SYSTEM PP TEXT		
469	PSSTEXT	OVL 01,01	3212	6250	79/06/20.	77/08/08.	PRODUCT SET SUPPORT MACROS.		
470	SYSTEXT	OVL 01,01	4515	5153	79/06/20.	78/04/10.	SYSTEM CP MACROS.		
471	(00)	SUM =	17422	LIBRARY =	15				
472	PFHTEXT	OVL 01,01	1101	3041	79/06/09.	PERMANENT FILE SYSTEM MACROS.			
473	FCL5TXT	OVL 01,01	10531	1644	79/06/20.	FCL5 - INITIALIZE FCL5 RUN TIME LIBRARY.			
474	MTH5TXT	OVL 01,01	2626	1761	79/06/20.	MACROS FOR MATH LIBRARY.			
475	CETEXT	OVL 01,01	173	5746	79/06/20.	79/05/10.	ENGINEERING SERVICES SUPPORT TEXT.		
476	SSYTEXT	OVL 01,01	132	1564	79/06/20.	76/10/24.	SYSTEM TEXT FOR CONTROL POINT PROGRAMS.		
477	CPCTEXT	OVL 01,01	5273	3411	79/06/09.	SYSTEM TEXT FOR CPU PROGRAMS USING *CPC*.			
478	CPUTEXT	OVL 01,01	4562	3435	79/06/09.	SYSTEM TEXT FOR CPU PROGRAMS USING MACE I/O.			
479	IPTEXT	OVL 01,01	647	3311	79/06/09.	INSTALLATION PARAMETER SYSTEM MACROS.			
480	SPPTEXT	OVL 01,01	6402	1730	79/06/09.	PPU PROGRAM SYSTEM TEXT.			
481	SCPTXT	OVL 01,01	12232	1103	79/06/09.	SYSTEM TEXT.			
482	CDCSTXT	OVL 01,01	452	2266	79/06/09.				
483	(00)	SUM =	51237	LIBRARY =	16				
484	LDC	OVL 00,00	103	5760	79/06/20.	75/07/11.	LDC - LOAD TIMESHARING COMPILER OVERLAY.		
485	LIBGEN	ABS	1654	2730	79/06/20.	75/04/24. 79/05/09.	LIBGEN - GENERATE USER LIBRARY.		
	LIBGEN	156							
486	SETCORE	OVL 00,00	105	0741	79/06/20.	75/02/10.	SETCORE - PRESET MEMORY.		
487	LORCNTL	ABS	216	3645	79/06/09.				
	LIBRARY	244							
	MAP	207							
	REDUCE	152							
	RFL=	316							
488	LOADER	ABS	12040	3353	79/06/09.	CYBER COMMON LOADER (L 498).			
	LOADLDR	11577							
	LOAD	11613							
	LTLLOAD	11613							
	SLOAD	11613							
	EXECUTE	11613							
	NOGO	11613							
	SATISFY	11613							
	SFGLOAD	11613							

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	22
	LDSET		11613						
	GROUP		11613						
	CAPSULE		11613						
	LDR=		11612						
	SLDR=		11610						
	MFL=		240000						
	SSJ=		0						
489	LOADU	ABS	10367	3461	79/06/09.	USER-CALL LOADER (L 498).			
	LOADU		7311						
	SSJ=		0						
490	LDRTEXT	OVL 01,01	1240	3413	79/06/09.	LOADER REQUEST SYSTEM MACROS.			
491	LOADC	OVL 01,01	663	7044	79/06/09.	LOADER - PROCESS CARD IMAGES.			
492	LOADG	OVL 01,02	2117	3665	79/06/09.	LOADER - GENERATE OVERLAYS.			
493	LOADS	OVL 01,03	4540	2640	79/06/09.	LOADER - GENERATE SEGMENT LOAD.			
494	LOADZ	OVL 01,00	10637	3544	79/06/09.	LOADER - RESUME OVERLAY GENERATION.			
495	LOADM	OVL 02,00	3542	2237	79/06/09.	LOADER - WRITE LOAD MAP.			
496	LOADUC	OVL 04,01	711	4466	79/06/09.	LOADU - PROCESS CARD IMAGES.			
497	LOADUM	OVL 04,02	2450	6245	79/06/09.	LOADU - WRITE LOAD MAP.			
498	TRAP	OVL 00,00	4307	3027	79/06/09.				
499	SEGRES	OVL 00,00	1136	5257	79/06/09.	SEGMENT LOADER RESIDENT.			
500	(00)	SUM =	63362			LIBRARY =	17		
501	GENHELP	TEXT	37	4434					
502	GENVAL	TEXT	16	1776					
503	LIRMOD	TEXT	17	6625					
504	MOVEPF	TEXT	44	2316					
505	(00)	SUM =	140			LIBRARY =	18		
506	QFM	PP (1100)	1060	6064	79/06/20.	75/01/27. QUEUE	FILE MANAGER.		
507	3QA	PP (3170)	152	3451	79/06/20.	74/04/01.	QFM - QFM ERROR PROCESSOR.		
508	3QB	PP (3170)	35	4142	79/06/20.	74/04/01.	QFM - INITIALIZE IQFT FILE.		
509	3QC	PP (3170)	167	6265	79/06/20.	74/04/01.	QFM - REQUEUE/RELEASE FNT LIST.		
510	3QD	PP (3170)	162	4135	79/06/20.	74/04/01.	QFM - DEQUEUE/ATTACH PROCESSORS.		
511	QFSP	ABS	6650	2201	79/06/20.	78/04/10. 79/05/09.	QUEUED FILE SUPERVISOR.		
	QFSP		6400						
	QREC		6463						
	QLIST		6455						
	QDUMP		6465						
	QLOAD		6473						
	LDLIST		6467						
	QMOVE		6503						
	DFTERM		6513						
	DFLIST		6507						
	QALTER		6433						
	FNTLIST		6436						
	RFL=		10500						
	SSJ=		3377						
	SSM=		6751						
512	QDUMP1	OVL 01,00	3256	7150	79/06/20.	76/10/24. 78/10/06.	QUEUE DUMP PROCESSOR.		
513	QLOAD1	OVL 01,00	3040	1431	79/06/20.	76/10/24. 78/10/06.	QUEUE LOAD PROCESSOR.		
514	QMOVE1	OVL 01,00	3646	3712	79/06/20.	76/10/24. 78/10/06.	QUEUE MOVE PROCESSOR.		
515	QREC1	OVL 01,00	2761	6770	79/06/20.	79/05/10.	QUEUE RECOVERY PROCESSOR.		
516	DFTERM1	OVL 01,00	2145	7247	79/06/20.	75/03/10. 79/05/09.	DAYFILE TERMINATION PROCESSOR.		
517	LDI	ABS	503	6220	79/06/20.	71/02/12. 78/04/09.	LOAD JOBS TO INPUT QUEUE.		
	LDI		125						
	RFL=		4625						

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
518	(00) SUM =	30525	LIBRARY =	19	
519	ILD PP (1100)	122	0111	79/07/12.	
520	CUX PP (1100)	45	6037	79/07/12.	CUX - CHECK USER ACCESS FOR MAINT. ROUTINES.
521	MLD PP (1100)	525	6343	79/07/12.	
522	5LL PP (4500)	476	4571	79/07/12.	
523	5MU PP (4500)	436	1720	79/07/12.	
524	58X PP (4500)	464	3530	79/07/12.	
525	55X PP (4500)	471	2577	79/07/12.	
526	56X PP (4500)	467	2753	79/07/12.	
527	57X PP (4500)	463	6671	79/07/12.	
528	541 PP (4500)	445	2360	79/07/12.	
529	58H PP (4500)	470	2420	79/07/12.	
530	58F PP (4500)	462	3231	79/07/12.	
531	5SU PP (4500)	447	7775	79/07/12.	
532	5SV PP (6207)	144	7505	79/07/12.	
533	5FH PP (4500)	463	2262	79/07/12.	
534	5FF PP (4500)	456	6044	79/07/12.	
535	5MT PP (4500)	473	0435	79/07/12.	
536	5MW PP (7277)	75	7065	79/07/12.	
537	5MR PP (7277)	67	3642	79/07/12.	
538	5MS PP (7277)	66	7432	79/07/12.	
539	5CU PP (4500)	347	3267	79/07/12.	
540	5BP PP (1100)	176	3422	79/07/12.	
541	CP1 PP (1100)	1236	2777	79/07/12.	
542	LP1 PP (1100)	750	6425	79/07/12.	
543	90A PP (5710)	134	6772	79/07/12.	
544	90B PP (5710)	204	4744	79/07/12.	
545	90C PP (5710)	204	0640	79/07/12.	
546	90D PP (5710)	157	3276	79/07/12.	
547	90E PP (5710)	113	2552	79/07/12.	
548	90F PP (5710)	166	5613	79/07/12.	
549	CR1 PP (1100)	1224	0444	79/07/12.	
550	FTP PP (1100)	671	0660	79/07/12.	
551	90H PP (5331)	43	1413	79/07/12.	
552	90I PP (5331)	2	3055	79/07/12.	
553	90J PP (5331)	124	6526	79/07/12.	
554	90K PP (5331)	140	2000	79/07/12.	
555	90L PP (5331)	61	2060	79/07/12.	
556	90M PP (5331)	107	6663	79/07/12.	
557	90N PP (5331)	77	3422	79/07/12.	
558	90O PP (5331)	105	6470	79/07/12.	
559	90P PP (5331)	65	5470	79/07/12.	
560	90Q PP (5331)	123	2370	79/07/12.	
561	90R PP (5331)	25	6166	79/07/12.	
562	90S PP (5331)	132	7407	79/07/12.	
563	90T PP (5331)	23	1430	79/07/12.	
564	90U PP (5331)	123	3532	79/07/12.	
565	90V PP (5331)	37	5465	79/07/12.	
566	CSU ABS	2042	0401	79/07/12.	
	CSU	111			
	MFL=	2000			
567	LCM ABS	3063	5342	79/07/12.	
	LCM	111			
	RFL=	5000			

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	24
568	MEM ABS MEM 111 RFL= 20000	2253	0641	79/07/12.				
569	MY1 ABS MY1 111 MFL= 20000	1553	1103	79/07/12.				
570	EC3 ABS EC3 111 RFL= 5440 SSJ= 3374	3314	0612	79/07/12.				
571	CYBRLOG ABS CYBRLOG 1555 RFL= 2400 SSJ= 110	2227	6451	79/07/20.				
572	ALX ABS ALX 111 RFL= 2100	1735	0207	79/07/12.				
573	CT3 ABS CT3 111 RFL= 20000	5546	1030	79/07/12.				
574	CT7 ABS CT7 111 RFL= 30000	5464	3652	79/07/12.				
575	CTB ABS CTB 111 RFL= 10000	6171	3065	79/07/12.				
576	CU1 ABS CU1 111 RFL= 6400	6215	6306	79/07/12.				
577	FM2 ABS FM2 111 RFL= 1600	1451	3651	79/07/12.				
578	STX ABS STX 111 RFL= 40000	5020	1036	79/07/12.				
579	CMU ABS CMU 111 RFL= 10000	1643	6422	79/07/12.				
580	FST ABS FST 111 RFL= 2300	2136	2003	79/07/12.				
581	IWS ABS IWS 111 RFL= 2200	2027	3400	79/07/12.				
582	MRG ABS MRG 111 RFL= 2300	2167	5706	79/07/12.				
583	RAN ABS RAN 111 RFL= 2700	2536	0676	79/07/12.				
584	GETLOG ABS GETLOG 144 RFL= 12236 SSJ= 363	725	4626	79/07/12.				
585	KEDIAG ABS KEDIAG 4152	6045	3420	79/07/12.				

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	25
	RFL= 6151							
	SSJ= 2437							
586	NORM ABS	40574	2422	79/07/12.				
	NORM 11137							
587	FDP PP (1100)	1105	1742	79/07/05.	FDP - 881/883 PACK FORMATTING UTILITY DRIVER.			
588	FORMAT ABS	4340	2016	79/07/05.	FORMAT - 7054/844 DISK PACK FORMATTING UTILITY.			
	FORMAT 3731							
	RFL= 4436							
589	(00) SUM =	170610			LIBRARY =		20	
590	CCLBRWE ABS	5250	5247	79/06/09.				
	BEGIN 3377							
	REVERT 3377							
	WHILE 3377							
	ENDW 3377							
	ARG= 0							
	RFL= 10664							
	SDM= 0							
	SSJ= 0							
591	CCLIFES ABS	2636	0501	79/06/09.				
	IFE 2604							
	ELSE 2604							
	ENDIF 2604							
	SKIP 2604							
	ARG= 0							
	RFL= 3677							
	SDM= 0							
	SSJ= 0							
592	CCLDS ABS	2541	6402	79/06/09.				
	DISPLAY 2423							
	SET 2423							
	ARG= 0							
	RFL= 3602							
	SDM= 0							
	SSJ= 0							
593	SYSLIB ULIB	2075	6673	79/06/20.				
755	(00) SUM =	51500			LIBRARY =		21	
756	CRMEP ABS	10146	0371	79/06/09.				
	CRMEP 3326							
757	FILE ABS	2617	5204	79/06/09.				
	FILE 1356							
758	IOTEXT OVL 01,01	11202	1741	79/06/09.				
759	TXTCRM OVL 01,01	11332	4000	79/06/09.				
760	BAHLIB ULIB	422	6450	79/07/12.				
831	FORM ABS	7120	7253	79/06/09.				
	FORM 247							
832	BIT8LIB ULIB	601	4155	79/06/09.				
863	(00) SUM =	134426			LIBRARY =		22	
864	SYMPL ABS	11666	1352	79/06/09.				
	SYMPL 11057							
865	SYMP10 OVL 01,00	7553	2534	79/06/09.				
866	SYMP15 OVL 01,05	5621	3361	79/06/09.				
867	SYMP16 OVL 01,06	26024	0435	79/06/09.				
868	SYMP14 OVL 01,04	3005	3146	79/06/09.				

REC	CATALOG NAME	OF DS TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	26
869	SYMP17	OVL 01,07	2427	6546	79/06/09.				
870	SYMP13	OVL 01,03	23023	2360	79/06/09.				
871	SYMP30	OVL 03,00	33	3267	79/06/09.				
872	SYMP31	OVL 03,01	31015	5643	79/06/09.				
873	SYMP32	OVL 03,02	34723	1126	79/06/09.				
874	SYMP40	OVL 04,00	11751	1742	79/06/09.				
875	SYMP50	OVL 05,00	10037	4777	79/06/09.				
876	SYMP51	OVL 05,01	1210	1356	79/06/09.				
877	SYMP52	OVL 05,02	1342	2114	79/06/09.				
878	SYMLIB	ULIB	25	5014	79/06/09.				
885	(00)	SUM =	221375	LIBRARY =	23				
886	(00)	SUM =	0	LIBRARY =	24				
887	(00)	SUM =	0	LIBRARY =	25				
888	(00)	SUM =	0	LIBRARY =	26				
889	(00)	SUM =	0	LIBRARY =	27				
890	(00)	SUM =	0	LIBRARY =	28				
891	(00)	SUM =	0	LIBRARY =	29				
892	COPY8P	ABS	15227	7272	79/06/09.				
	COPY8P	141							
893	(00)	SUM =	15227	LIBRARY =	30				
894	(00)	SUM =	0	LIBRARY =	31				
895	(00)	SUM =	0	LIBRARY =	32				
896	(00)	SUM =	0	LIBRARY =	33				
897	(00)	SUM =	0	LIBRARY =	34				
898	ADC	PP (1100)	1145	4321	79/06/20. 71/01/09. 78/04/09.	ANDY CAPP DISPLAY.			
899	BAT	PP (1100)	1176	1136	79/06/20. 71/03/02. 79/05/09.	BASEBALL GAME.			
900	DOG	PP (1100)	345	4126	79/06/20. 73/05/05. 78/04/09.	SNOOPY WMI FLYING ACE.			
901	9ZA	PP (3116)	750	7417	79/06/20. 73/05/05. 78/04/09.	ACE - DISPLAY DATA.			
902	DS1	PP (1100)	643	7622	79/06/20. 71/01/09. 78/04/09.	6612/DD60 DISPLAY ALIGNMENT TEST.			
903	HFM	PP (1100)	123	1510	79/06/20. 74/11/13. 76/05/26.	HARDWARE FUNCTION MANAGER.			
904	SMP	PP (1100)	203	5770	79/06/20. 71/07/27. 78/04/09.	SAMPLE CPU P-REGISTER.			
905	WRM	PP (1100)	471	0304	79/06/20. 71/01/09. 78/04/09.	WORM(S) DISPLAY.			
906	ITS	PP (1100)	574	2451	79/06/20. 78/06/22. 79/05/09.	INTERACTIVE TERMINAL STIMULATION DRIVER.			
907	ITE	PP (1100)	717	2757	79/06/20. 78/06/22. 79/05/09.	EXTERNAL TERMINAL STIMULATION DRIVER.			
908	DEMUX	ABS	2015	3076	79/06/20. 78/06/22. 79/06/16.	DEMUX - SORT STIMULA TERMINAL DATA.			
	DEMUX	142							
	RFL=	23130							
909	DSDI	ABS	20120	7407	79/06/20. 78/04/10. 79/05/09.	DEAD START DUMP INTERPRETER.			
	DSDI	320							
	MFL=	50313							
	SSJ=	243							
910	LPT	ABS	3025	3534	79/06/20. 70/07/25. 75/04/20.	LINE PRINTER TEST.			
	LPT	110							
	RFL=	3123							

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	L CKSUM	DATE	COMMENTS
911	MST MSADR 130 MST 144 MFL= 205604	1663	3336	79/06/20.	74/03/04. 79/05/09. MASS STORAGE TEST.
912	SCRSIM ABS SCRSIM 207 RFL= 3257 SSJ= 202	2704	5655	79/06/20.	74/11/13. 79/05/09. STATUS/CONTROL REGISTER SIMULATOR.
913	STIMULA ABS STIMULA 253 NSTIM 246 ASTIM 247 RFL= 13544	4544	0247	79/06/20.	78/06/22. 79/05/09. INTERACTIVE TERMINAL STIMULATOR.
914	UPMOD ABS UPMOD 163 MFL= 244156	1755	6074	79/06/20.	70/06/06. 75/04/20. UPDATE TO MODIFY CONVERSION PROGRAM.
915	DFSORT ABS DFSORT 42226	51051	2671	79/06/20.	
916	PSAMP ABS PSAMP 4514	12744	4123	79/06/20.	
917	(00) SUM =	133764	LIBRARY =	35	
918	(00) SUM =	0	LIBRARY =	36	
919	(00) SUM =	0	LIBRARY =	37	
920	(00) SUM =	0	LIBRARY =	38	
921	(00) SUM =	0	LIBRARY =	39	
922	(00) SUM =	0	LIBRARY =	40	
923	(00) SUM =	0	LIBRARY =	41	
924	(00) SUM =	0	LIBRARY =	42	
925	(00) SUM =	0	LIBRARY =	43	
926	(00) SUM =	0	LIBRARY =	44	
927	(00) SUM =	0	LIBRARY =	45	
928	(00) SUM =	0	LIBRARY =	46	
929	(00) SUM =	0	LIBRARY =	47	
930	(00) SUM =	0	LIBRARY =	48	
931	(00) SUM =	0	LIBRARY =	49	
932	(00) SUM =	0	LIBRARY =	50	
933	(00) SUM =	0	LIBRARY =	51	
934	(00) SUM =	0	LIBRARY =	52	



REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	28
935	(00)	SUM =	0	LIBRARY =	53				
936	(00)	SUM =	0	LIBRARY =	54				
937	(00)	SUM =	0	LIBRARY =	55				
938	SYSTEM	OPLD	2321	3762	79/07/31.				
939	* EOF *	SUM =	1704736						

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	2 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	29
-----	-----------------------	------	----------------	------------	------	----------	---------------------	------	----

* EOI *		SUM =	0						
---------	--	-------	---	--	--	--	--	--	--

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	1		
1	COPYRT	OPLC (64)	26	0036	79/05/10.							
2	(00)	SUM =	26	LIBRARY =	1							
3	CETEXT	OPL (64)	1151	7166	79/05/10.							
4	ECSTEXT	OPL (64)	36	2060	78/04/10.							
5	PPTEXT	OPL (64)	26	1701	76/10/24.							
6	PSSTEXT	OPL (64)	34	5771	77/08/08.							
7	NDSTEXT	OPL (64)	33	7571	76/10/24.							
8	SSYS	OPL (64)	605	0773	76/10/24.							
9	SYSTEXT	OPL (64)	27	7071	78/04/10.							
10	(00)	SUM =	2160	LIBRARY =	2							
11	CPCOM KRA305 CPCOM6	OPLC (64) CPCOM1 KRA596	23724 KRA344 CPCOM48	4254 KRA354 CPCOM7	76/10/27. CPCOM2 N15000	CPCOM3	KRA381	CPCOM4	CPCOM5	KRA390	CPCOM4A	N14000
12	PPCOM KRA502 KRA572	OPLC (64) KRA513 KRA600	24302 KRA526 KRA606	7447 KRA548 PPCOM1	78/04/10. KRA555 N15000	KRA556 PPCOM2	KRA562	KRA566	KRA569	DDK21	KRAPFC	KRAPFCA
13	(00)	SUM =	50226	LIBRARY =	3							
14	COMCMAC DDK14	OPLC (64) KRA293	13647 N13000	5353 KRA311	76/01/11. KRA320	CMAC1	N14000	CMAC2	DDK21	N15000		
15	(00)	SUM =	13647	LIBRARY =	4							
16	COMCARG	OPLC (64)	730	1107	79/05/10.							
17	COMCARM	OPLC (64)	1237	4177	79/05/10.							
18	COMCCCE	OPLC (64)	410	4644	79/05/10.							
19	COMCCDD KRON107	OPLC (64) DDK07	415	6304	70/12/20.							
20	COMCCFD KRON107	OPLC (64)	567	3501	71/09/13.							
21	COMCCHD	OPLC (64)	356	2615	78/04/10.							
22	COMCCIO	OPLC (64)	1043	5656	79/05/10.							
23	COMCCOD DDC12	OPLC (64)	340	5100	70/12/20.							
24	COMCCMD CCMD1	OPLC (64) CCMD2	3617	0154	78/04/10.							
25	COMCCPA	OPLC (64)	1073	5363	76/01/09.							
26	COMCCPM K21001	OPLC (64)	245	1347	70/10/09.							
27	COMCCPT CCPT1	OPLC (64)	416	7565	73/10/23.							
28	COMCCVI N14000	OPLC (64)	3034	3165	75/04/20.							
29	COMCCVL	OPLC (64)	224	7701	78/04/10.							

REC	CATALOG NAME	OF DPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	2
30	COMCDXB DUC12	OPLC (64) DOK07	625 CDXB1	5255	70/10/09.				
31	COMCECM	OPLC (64)	664	4522	78/04/10.				
32	COMCECS CECS1	OPLC (64) CECS2	3600 CECS3	0370 N15000	78/04/10.				
33	COMCEDT	OPLC (64)	461	5512	71/02/04.				
34	COMCFCE CFCE1	OPLC (64) CFCE2	3064 KRON43	5127 KRON92	71/07/21. K21001	DOK03	KRA068	KN0003	KRAPFC
35	COMCF00 N12000	OPLC (64) N13000	1316	3043	75/02/21.				
36	COMCHXB N15000	OPLC (64)	431	6331	78/04/10.				
37	COMCIQP	OPLC (64)	1470	0570	76/10/24.				
38	COMCLFM CLFM1	OPLC (64)	315	0527	70/10/09.				
39	COMCLOD	OPLC (64)	1262	0171	78/04/10.				
40	COMCMTM CMTM1	OPLC (64) CMTM2	742	6272	70/12/13.				
41	COMCMTP DOK01	OPLC (64) CMTM1	3425 CMTM2	6632	70/12/20.				
42	COMCMVE DOK05	OPLC (64)	1427	0103	73/11/10.				
43	COMCOVL	OPLC (64)	265	4332	70/12/20.				
44	COMCPFM CPFM1	OPLC (64)	312	7233	70/12/01.				
45	COMCPFU	OPLC (64)	303	1160	75/08/19.				
46	COMCPOP KRA604	OPLC (64)	1651	6173	78/04/10.				
47	COMCQFM	OPLC (64)	305	2607	74/01/31.				
48	COMCRDC	OPLC (64)	520	1254	78/04/10.				
49	COMCRDH CRDH1	OPLC (64)	750	6267	76/01/11.				
50	COMCRDO RDO1	OPLC (64) CRDO2	573 K21001	1216 CRDO3	70/10/09.				
51	COMCRDS	OPLC (64)	1416	0640	75/04/20.				
52	COMCRDW KRA302	OPLC (64) KRA344	2755 KRA302B	0621 KRA602	73/11/09. CRDW1				
53	COMCRSP	OPLC (64)	2504	7536	78/04/10.				
54	COMCRTN K21006	OPLC (64) CRTN1	13504 N13000	0335 N14000	73/05/05. KRA561				

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
55	COMCSFM	OPLC (64)	310	3370	70/10/09.	
56	COMCSFM DOK16	OPLC (64) KRA369	273	5415	74/12/04.	
57	COMCSNM N14000	OPLC (64) KRA535	1015	3707	77/03/15.	
58	COMCSRT CSRT1	OPLC (64) KRA554	2054	7100	78/04/10.	
59	COMCSSN CSSN1	OPLC (64)	320	5351	70/10/24.	
60	COMCSST	OPLC (64)	370	3742	70/12/04.	
61	COMCSTF	OPLC (64)	232	6200	79/05/10.	
62	COMCSYS	OPLC (64)	1121	3005	79/05/10.	
63	COMCUPC DOC10	OPLC (64) K21001	732	3576	70/12/13.	DOK01 DOK03 KRA042
64	COMCUSB	OPLC (64)	621	0333	79/05/10.	
65	COMCVFE CVFE1	OPLC (64)	1456	2210	76/10/27.	
66	COMCWOD	OPLC (64)	471	3744	70/12/13.	
67	COMCHTC K21001	OPLC (64) DOC12	512	1066	70/10/09.	KRA038
68	COMCWTH	OPLC (64)	770	3544	74/12/04.	
69	COMCWTO K21001	OPLC (64)	466	6363	70/10/09.	
70	COMCWTS	OPLC (64)	1360	5371	74/12/04.	
71	COMCWTH CWTW1	OPLC (64) KRA302	2462	5763	73/11/09.	KRA302B DOK18
72	COMCZAP	OPLC (64)	631	5170	79/05/10.	
73	COMCZTB KRA369	OPLC (64)	303	4770	76/01/11.	
74	(00)	SUM =	115430	LIBRARY =	5	
75	COMDDIS N15000	OPLC (64)	2444	5436	78/04/10.	
76	COMDDSP DDSP1	OPLC (64) KRA606	1657 N15000	4450	78/04/10.	
77	COMDSYS KRON84	OPLC (64) KRON98	3433 DOK03	1375 N12000	70/12/20. DSYS1	N14000 DOK20 KRA572 N15000
78	COMDTFN	OPLC (64)	417	3147	79/05/10.	
79	(00)	SUM =	10375	LIBRARY =	6	
80	COMMSE	OPLC (64)	2351	6244	79/05/10.	
81	(00)	SUM =	2351	LIBRARY =	7	

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
82	COMPMAC	OPLC (64)	3112	3307	79/05/10.	
83	(00)	SUM -	3112	LIBRARY -	8	
84	COMPACE	OPLC (64)	1015	1365	79/05/10.	
85	COMPACS	OPLC (64)	370	1460	76/01/09.	
	DOK14					
86	COMPANS	OPLC (64)	510	6633	76/10/24.	
87	COMPCCI	OPLC (64)	160	5102	76/01/09.	
88	COMPCEA	OPLC (64)	323	6717	76/01/22.	
89	COMPCFP	OPLC (64)	314	7341	76/01/11.	
90	COMPCHI	OPLC (64)	1210	2651	76/01/11.	
	PCHI1					
91	COMPCHL	OPLC (64)	1515	6466	76/01/11.	
	N14000					
92	COMPCHM	OPLC (64)	716	1346	79/05/10.	
93	COMPICB	OPLC (64)	367	3271	70/03/12.	
	KRA113	K22000				
94	COMPCKP	OPLC (64)	170	4337	75/03/20.	
	N12000					
95	COMPCLD	OPLC (64)	562	6573	73/05/08.	
	N12000	DOK14				
96	COMPCLX	OPLC (64)	523	1435	79/05/10.	
97	COMPCHA	OPLC (64)	1605	3461	74/07/23.	
98	COMPCHX	OPLC (64)	1037	3254	75/02/15.	
	PCMX1	N14000				
99	COMPCOB	OPLC (64)	357	3161	70/03/12.	
	KRA113	K22000				
100	COMPORA	OPLC (64)	576	7437	79/05/10.	
101	COMPCR5	OPLC (64)	207	7205	73/05/05.	
	KRA113	DOK15				
102	COMPCTI	OPLC (64)	201	1656	72/06/15.	
	K22000					
103	COMPQUA	OPLC (64)	503	4231	76/01/11.	
104	COMPQUN	OPLC (64)	433	4032	76/10/24.	
105	COMPQUT	OPLC (64)	222	3066	76/01/09.	
106	COMPQVI	OPLC (64)	2500	2352	74/12/10.	
	N12000	N14000	DOK21			
107	COMPQZD	OPLC (64)	201	7010	70/09/03.	
	KRA113					
108	COMPQTS	OPLC (64)	500	2777	76/01/09.	
	DOK14	DOK15				
109	COMPQV5	OPLC (64)	245	2147	78/04/10.	

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
110	COMPECX	OPLC (64)	351	0156	78/04/10.	
111	COMPFAT	OPLC (64)	525	1253	78/04/10.	
112	COMPGBN	OPLC (64)	254	4531	75/01/20.	
113	COMPJN KRA113	OPLC (64)	353	6563	71/01/31.	
114	COMPJN KRA113	OPLC (64)	235	4424	71/01/31.	
115	COMPJN	OPLC (64)	207	0113	76/01/09.	
116	COMPJN K21001 KRA113	OPLC (64)	363 N15000	6727	70/09/18.	
117	COMPLDA	OPLC (64)	1465	4320	79/05/10.	
118	COMPMRQ KRON39	OPLC (64)	667 N13000	5150	70/12/13.	
119	COMPMSD	OPLC (64)	1166	0767	79/05/10.	
120	COMPRBB	OPLC (64)	337	2241	75/01/30.	
121	COMPRCB KRA113	OPLC (64)	474 K22000 DOK15	6726 N15000	70/03/12.	
122	COMPRCS	OPLC (64)	1323	4477	79/05/10.	
123	COMPJN N15000	OPLC (64)	523	7464	78/04/10.	
124	COMPJN	OPLC (64)	1116	6620	76/01/11.	
125	COMPRJC KRA113	OPLC (64)	245 DOK14	3000	70/07/20.	
126	COMPRJ PRL11	OPLC (64)	1206 DOK18 PRL12	6725	70/10/05.	
127	COMPRJ N15000	OPLC (64)	260	2744	78/04/10.	
128	COMPRNS KRA113	OPLC (64)	500 N15000	3005	73/06/12.	
129	COMPRSI N15000	OPLC (64)	445	1241	78/04/10.	
130	COMPRSS	OPLC (64)	1031	4503	79/05/10.	
131	COMPSAF DOK01	OPLC (64)	363 KRA113 DOK15	3271	70/09/03.	
132	COMPSCA	OPLC (64)	1257	7512	78/04/10.	
133	COMPJN N14000	OPLC (64)	254	1316	76/01/09.	
134	COMPJN	OPLC (64)	512	0245	74/11/08.	
135	COMPJN N15000	OPLC (64)	576	3553	78/04/10.	
136	COMPJN	OPLC (64)	176	3645	76/01/09.	

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	I CKSUM	DATE	COMMENTS
137	COMPSFB KRA113	OPLC (64)	260	3475	73/05/05.	
138	COMPSFE	OPLC (64)	673	5002	76/10/24.	
139	COMPSFI	OPLC (64)	415	1365	79/05/10.	
140	COMPSFN	OPLC (64)	254	4044	78/04/10.	
141	COMPSNT K21001 KRA113	OPLC (64)	406	7102	70/09/03.	
			DOK15	N15000		
142	COMPSPA KRA113	OPLC (64)	307	3443	71/01/31.	
143	COMPSRA DQC6	OPLC (64)	565	5577	70/09/03.	
			KRA113	DOK15	N14000	N15000
144	COMPSRU KRA557A	OPLC (64)	313	3600	78/08/09.	
145	COMPSSE N13000	OPLC (64)	510	6053	76/01/09.	
146	COMPSSE	OPLC (64)	441	2761	79/05/10.	
147	COMPSTA KRA113	OPLC (64)	324	3004	71/01/31.	
148	COMPSTI K22000	OPLC (64)	343	4121	72/07/14.	
			DOK12	PSTI1		
149	COMPSUT N14000	OPLC (64)	771	5254	76/01/09.	
150	COMPTGB	OPLC (64)	213	2424	76/01/09.	
151	COMPTLB	OPLC (64)	213	5226	76/01/09.	
152	COMPUPP KRA113	OPLC (64)	375	2207	71/02/01.	
153	COMPUPS	OPLC (64)	1224	1033	78/04/10.	
154	COMPUSS	OPLC (64)	5337	2020	79/05/10.	
155	COMPVFC	OPLC (64)	321	2314	76/10/24.	
156	COMPVFN KRA113	OPLC (64)	327	3126	70/03/12.	
157	COMPVMS N14000	OPLC (64)	7612	5210	76/01/11.	
			PVMS1	N15000		
158	COMPWBB KRA113	OPLC (64)	303	2513	70/03/12.	
159	COMPWCB KRA113	OPLC (64)	374	7013	70/03/12.	
			K22000			
160	COMPWEI N15000	OPLC (64)	537	0627	78/04/10.	
161	COMPWSS	OPLC (64)	1167	0303	79/05/10.	



REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	7
162	COMPWVE	OPLC (64)	1064	5654	79/05/10.				
163	(00)	SUM =	101167	LIBRARY =	9				
164	COMSACC DOK15	OPLC (64) N14000	3116	6051	76/10/27.				
165	COMSBIO KRA586	OPLC (64) N15000	2417	3073	78/04/10.				
166	COMSCIO KRA243	OPLC (64) N14000	456 N15000	5124	73/05/05.				
167	COMSCPS N15000	OPLC (64)	1421	3062	78/04/10.				
168	COMSDSL	OPLC (64)	1541	1547	79/05/10.				
169	COMSESS	OPLC (64)	413	1561	79/05/10.				
170	COMSEVT	OPLC (64)	471	1117	79/05/10.				
171	COMSEXP KRA231	OPLC (64) N13000	3642 KRA306	3200 KRA375	75/04/20. N14000				
172	COMSIOO N12000	OPLC (64) N13000	1675 KRA339	7306 DOK20	75/04/20. KRA584				
173	COMSJCE KRA600	OPLC (64)	273	0154	78/04/10.				
174	COMSJIO	OPLC (64)	1006	2672	79/05/10.				
175	COMSJRO	OPLC (64)	663	6146	78/04/10.				
176	COMSLDR	OPLC (64)	234	5735	73/06/12.				
177	COMSLFM	OPLC (64)	370	1236	78/05/16.				
178	COMSLSD	OPLC (64)	672	6225	79/05/10.				
179	COMSHMF KRAPFC	OPLC (64)	2055	0101	76/01/09.				
180	COMSHRT KRA536	OPLC (64)	454	7564	76/01/09.				
181	COMSMSC	OPLC (64)	154	0565	79/05/10.				
182	COMSMSE KRA616	OPLC (64)	136	2656	76/03/04.				
183	COMSMSP KRAPFC	OPLC (64) N15000	3752	0036	78/04/10.				
184	COMSMST KRA263	OPLC (64) N14000	551 KRAPFCA	0442 N15000	76/01/09.				
185	COMSMTR N14000	OPLC (64)	302	2450	76/01/11.				
186	COMSMTX	OPLC (64)	10114	4702	79/05/10.				
187	COMSNCD	OPLC (64)	1726	7551	78/04/10.				
188	COMSNET K21006	OPLC (64) N14000	212	2632	73/05/05.				

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
189	COMSPFM KRA620	OPLC (64)	6340	6062	79/05/10.	
190	COMSPFS KRA113	OPLC (64) SPFS1	3502 KRA239	3323 N12000	73/05/24. N14000	
191	COMSPFU	OPLC (64)	1147	0211	79/05/10.	
192	COMSPRD KRA543	OPLC (64) KRA573	650 N15000	5413	78/04/10.	
193	COMSPRO	OPLC (64)	2062	1661	78/04/10.	
194	COMSQFS KRA541	OPLC (64) KRA584	2652 KRA608	5010	78/04/10.	
195	COMSREM	OPLC (64)	3060	6461	79/05/10.	
196	COMSR5X N15000	OPLC (64)	1567	1507	78/04/10.	
197	COMSSCP N15000	OPLC (64)	732	4653	76/10/24.	
198	COMSSCR	OPLC (64)	666	3747	79/05/10.	
199	COMSSFS KRA038	OPLC (64) K22000	3441	0545	73/05/05.	
200	COMSSRU N12000	OPLC (64) N13000	5453 KRA313	6650 KRA387	75/02/22. N14000	KRA387A N15000
201	COMSSSE KRA331	OPLC (64) SSSE1	2146 KRA401	4220 N14000	76/10/24. KRA545	KRAPFC N15000
202	COMSSSJ	OPLC (64)	706	7174	79/05/10.	
203	COMSTCM KRA500	OPLC (64)	2222	2333	76/10/27.	
204	CUMSTDR KRA064	OPLC (64) KRA105	650 K22000	7573 N12000	73/05/05.	
205	COMSTRX N13000	OPLC (64) N14000	720 N15000	7656	75/04/05.	
206	COMSWEI	OPLC (64)	167	0633	78/04/10.	
207	COMSZOL N15000	OPLC (64)	426	2601	76/10/24.	
208	COMS1DS	OPLC (64)	740	1275	79/05/10.	
209	COMS176	OPLC (64)	124	4654	79/05/10.	
210	(00)	SUM =	120315	LIBRARY =	10	
211	COMTDA8	OPLC (64)	1620	5446	79/05/10.	
212	COMTOP6	OPLC (64)	425	3633	75/04/20.	
213	COMTDP9	OPLC (64)	545	6776	75/04/20.	
214	COMTNAP TNAP1	OPLC (64)	405	4745	78/04/10.	

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	9		
215	COMTVDT TVDT1	OPLC (64) TVDT2	2576 TVDT3	6562 KRA595	78/04/10.							
216	COMT6DP	OPLC (64)	344	0172	78/04/10.							
217	COMT8AD	OPLC (64)	526	1035	79/05/10.							
218	COMT9DP	OPLC (64)	342	1005	78/04/10.							
219	(00)	SUM =	7651	LIBRARY =	11							
220	CALLCPU	OPL (64)	152	1071	76/10/27.							
221	CALLDIS	OPL (64)	142	4520	73/06/12.							
222	CALLPPU N14000	OPL (64)	772	5766	76/10/27.							
223	CALLSYS KRON102	OPL (64)	41	7034	70/03/05.							
224	CALLTAB KRON102	OPL (64)	41	0776	70/03/05.							
225	CALLINT	OPL (64)	373	7424	78/05/31.							
226	(00)	SUM =	2003	LIBRARY =	12							
227	CODING	OPL (64)	37000	3312	78/04/10.							
228	(00)	SUM =	37000	LIBRARY =	13							
229	CIO CIO2 N15000	OPL (64) KRA550	67407 CIO1	1315 CIO3	78/04/10. KRAPFC	KRA581	CIO4	CIO5	CIO6	CIO7	CIO8	CIO9
230	CPM CPM1	OPL (64) CPM2	33145 CPM3	2451 KRA548	78/04/10. KRA557	KRA562	CPM4	CPM5	N15000			
231	CVL KRA513	OPL (64) N15000	23035	1435	78/04/10.							
232	DIO	OPL (64)	7252	0745	79/05/10.							
233	DIS DIS1 DIS6	OPL (64) N13000 DIS7	61656 DIS2 N15000	7347 KRA355	76/01/11. DIS3	KRA372	DIS4	DIS5	N14000	KRA544	KRA567	KRA548A
234	DSD	OPL (64)	132351	4613	79/05/10.							
235	DSP KRA362 DSP8	OPL (64) DSP1 DSP9	24452 KRA362A KRA609	1076 KRA378 N15000	76/10/24. KRA384 DSP1A	DSP2	DSP3	DSP4	DSP5	N14000	DSP6	DSP7
236	ELM	OPL (64)	3273	1023	78/04/10.							
237	EXU K21001	OPL (64) KRA065	2413 EXU1	2401 N15000	70/12/20.							
238	FDL N15000	OPL (64)	21342	0725	78/04/10.							
239	IMS KRA553	OPL (64) KRAPFC	26256 KRAPFCA	1050 N15000	78/04/10. KRA616							



REC	CATALOG OF OPL NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	11			
263	OAU N14000 OPL (64) N15000	3430	1435	76/10/24.							
264	OAV OAV1 OPL (64) OAV2 N14000	4551	4462	76/10/24.							
265	OBF KRA513 OPL (64) OBF1 KRA550	3010	4461	78/04/10.							
266	OBP N15000 OPL (64)	11330	2632	78/04/10.							
267	ODF OPL (64)	4504	0664	79/05/10.							
268	OFA N13000 OPL (64) KRAPFC	1215	5517	76/01/11.							
269	ORF N15000 OPL (64)	2642	3263	78/04/10.							
270	ORP OPL (64)	2555	6262	79/05/10.							
271	OVJ OPL (64)	10465	2134	79/05/10.							
272	(00) SUM =	50566	LIBRARY =	15							
273	1AJ DUK19 KRA588 OPL (64) KRA507 KRA600	101242	4705	78/04/10.	1AJ1 1AJ2 1AJ3 1AJ4 1AJ5 1AJ6	KRA543 1AJ7	KRA548 1AJ8	KRA552 1AJ9	KRA555 1AJ10	1AJ4 N15000	KRA548A
274	1CD 1CD3 OPL (64)	33733	1213	79/05/10.							
275	1CJ 1CJ1 OPL (64) 1CJ2 N15000	12235	2302	78/04/10.							
276	1CK OPL (64)	11767	5213	79/05/10.							
277	IDL KRA370 OPL (64) N15000	3514	6146	76/10/24.							
278	1DS OPL (64)	24771	0562	79/05/10.							
279	1IO OPL (64)	25163	0075	79/05/10.							
280	1IS OPL (64)	6611	1304	79/05/10.							
281	1MA 1MA1 OPL (64) KRA552 KRA566A	11670	3222	78/04/10.	1MA2 1MA3	N15000					
282	1MB OPL (64)	13404	0701	79/05/10.							
283	1MC OPL (64)	2777	7640	79/05/10.							
284	1MT KRA501 KRA572 OPL (64) KRA508 KRA578	303162	1422	78/04/10.	1MT1 1MT2 1MT3 1MT4 1MT5 1MT6 1MT7	KRA533 1MT9	KRA539 1MT10	KRA567 1MT11	1MT12 1MT13 1MT14	1MT15 1MT16 1MT17 N15000	
285	1RI 1RI1 OPL (64) KRA543 KRA566	24723	4037	78/04/10.	1RI2 1RI3 1RI4	KRA566A 1RI5	KRA573 1RI6	1RI7 1RI8	1RI9 1RI10	1RI11 1RI12 1RI13 1RI14 N15000	
286	1RO KRA513 OPL (64) 1RO1 KRA566A	27330	0767	78/04/10.	1RO2 1RO3 1RO4 1RO5 1RO6	KRA571 1RO7	KRA573 1RO8	1RO9 1RO10	1RO11 1RO12	1RO13 1RO14 1RO15 1RO16 N15000	

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	12		
287	1SI	OPL (64)	2736	7104	79/05/10.							
288	1SJ KRA543	OPL (64) KRA573	16125 1SJ1	2435 N15000	78/04/10.							
289	1SP N15000	OPL (64)	11311	0356	78/04/10.							
290	1TA KRA513	OPL (64) 1TA1	76757 1TA2	2452 1TA3	78/04/10. 1TA4	1TA5	1TA6	KRA571	1TA7	1TA8	N15000	
291	1T0 KRA506 N15000	OPL (64) 1T01 1T010	27532 1T02	1112 KRA561	78/04/10. 1T03	1T04	1T05	KRA561A	1T05A	1T06	1T08	1T09
292	(00)	SUM =	1037157	LIBRARY =	16							
293	5ME	OPL (64)	1145	6042	78/04/10.							
294	6DE	OPL (64)	2204	5107	79/05/10.							
295	6DI 6DI1	OPL (64)	15662	5503	79/05/10.							
296	6DP 6DP1	OPL (64)	10403	2615	79/05/10.							
297	6MD	OPL (64)	1406	2451	79/05/10.							
298	(00)	SUM =	33244	LIBRARY =	17							
299	ACCFAM	OPL (64)	3013	5350	78/04/10.							
300	BLANK BLANK1	OPL (64) BLANK2	6613 N14000	7121	76/10/27.							
301	CATALOG CATAL1	OPL (64) N12000	10716 N13000	6164 KRA312	75/03/20. CATAL2	CATAL3	CATAL4	N14000	KRA554	KRA563	CATAL5	
302	CATLIST	OPL (64)	12347	0700	79/05/10.							
303	CHARGE KRA338	OPL (64) CHARG1	11427 CHARG2	1636 KRA519	76/10/27. KRA557							
304	CHKPT CHKPT1	OPL (64) N14000	10656 CHKPT2	1015 CHKPT3	76/10/27.							
305	CONFIG	OPL (64)	23452	4153	78/04/10.							
306	CONTROL CONTR1	OPL (64) CONTR2	22730 N15000	0733	78/04/10.							
307	CONVERT KRA211	OPL (64) N14000	7244	4301	75/04/20.							
308	COPYB KRA374 COPYB8	OPL (64) COPYB1	44560 COPYB2	4663 COPYB3	77/03/21. COPYB4	N14000	KRA524	KRA525	COPYB5	COPYB6	KRA554	COPYB7
309	COPYC	OPL (64)	2606	6677	78/04/10.							
310	COPY67 CPY2	OPL (64) SCP046	1340 KTITLE	0367	70/06/06.							



REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	14		
334	LIST80	OPL (64)	3127	6601	79/05/10.							
335	L072	OPL (64)	15025	4117	71/02/28.							
	L0721	L0722	L0723	L0723A	L0724	L0725	L0726	L0727	L0728	L0729	L07210	
336	MAGNET	OPL (64)	33271	2346	78/04/10.							
	KRA501	MAGNE1	KRA533	KRA539	KRA539A	KRA572	KRA578	KRA580	MAGNE2	N15000		
337	MFILES	OPL (64)	3267	1004	79/05/10.							
338	MODIFY	OPL (64)	72243	2530	75/04/20.							
	MODIF1	MODIF2	MODIF3	MODIF4	MODIF5	N13000	MODIF6	MODIF7	MODIF8	KRA352	MODIF9	MODIF10
	N14000	KRA554	MODIF11	KRA611	MODIF12	MODIF13						
339	MODVAL	OPL (64)	62011	7430	76/01/11.							
	MODVA1	KRA288	MODVA2	MODVA3	N13000	MODVA4	DOK16	MODVA5	MODVA6	MODVA7	MODVA8	MODVA9
	MODVA10	KRA393	MODVA11	MODVA12	MODVA13	N14000	MODVA14	MODVA15	KRA590	MODVA16	MODVA17	MODVA18
	MODVA19	MODVA20										
340	MSI	OPL (64)	35622	5660	78/04/10.							
	KRA556	MSI1	MSI2	KRAPFC	MSI3	N15000	KRA616					
341	MSORT	OPL (64)	2311	7255	78/04/10.							
342	NOTE	OPL (64)	1723	2131	78/04/10.							
343	OPL EDIT	OPL (64)	25205	3623	75/03/20.							
	OPL ED1	OPL ED2	OPL ED3	OPL ED4	OPL ED5	KRA352	OPL ED6	KRA611				
344	PACK	OPL (64)	1035	3066	76/01/11.							
	PACK1											
345	PFATC	OPL (64)	10225	5177	73/05/24.							
	PFATC1	PFATC2	KRA116	DOK13	KRA367	N14000	KRA556	KRAPFC				
346	PFCAT	OPL (64)	21026	0647	78/04/10.							
	KRA556	KRAPFC	KRAPFCA	PFCAT1								
347	PFCOPY	OPL (64)	11642	3467	73/05/24.							
	PFCOP1	PFCOP2	PFCOP3	PFCOP4	PFCOP5	KRA099	PFCOP6	KRA116	KRA216	DOK13	KRA367	PFCOP7
	N14000	KRA556	KRAPFC									
348	PFDUMP	OPL (64)	55257	1053	78/04/10.							
	PFDUM1	KRA556	PFDUM2	KRAPFC	PFDUM3	N15000						
349	PFILES	OPL (64)	15123	0220	76/10/27.							
	KRA310	KRA393	PFILES1	N14000	KRAPFC	N15000						
350	PFLOAD	OPL (64)	73014	2315	78/04/10.							
	KRA524	PFLOA1	KRA547	KRA556	PFLOA2	KRAPFC	KRAPFCC	KRA602				
351	PFS	OPL (64)	15361	2274	73/05/24.							
	PFS1	KRA072	PFS2	K22000	KRA239	N12000	DOK13	N13000	PFS3	PFS4	N14000	
352	PROFILE	OPL (64)	61160	5773	76/09/21.							
	PROFI1	PROFI2	KRA393	PROFI3	N14000	PROFI4	PROFI5	PROFI6	KRA590			
353	PURGALL	OPL (64)	4171	6175	73/05/05.							
	KRA005	DOK05	KRA088	PURGA1	PURGA2	PURGA3	PURGA4					



REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	15		
354	QDUMP KRA368	OPL (64) KRA379	31251 QDUMP1	3513 QDUMP2	76/10/24. QDUMP3	N14000	KRA525	KRA540				
355	QFSP KRA541	OPL (64) KRA568	44030 QFSP1	7237 QFSP2	78/04/10. QFSP3	KRA584	KRA608	QFSP4				
356	QLOAD KRA330	OPL (64) KRA368	22534 KRA379	0276 QLOAD1	76/10/24. QLOAD2	N14000	KRA525	QLOAD3	KRA568			
357	QMOVE KRA368	OPL (64) KRA379	33306 N14000	0477 KRA525	76/10/24. KRA540	QMOVE1						
358	QREC	OPL (64)	20751	0634	79/05/10.							
359	RESEQ	OPL (64)	11612	1023	79/05/10.							
360	RESEX KRA508	OPL (64) RESEX1	74667 RESEX2	7532 KRA544	78/04/10. KRA544A	KRA544B	KRA572	RESEX3	RESEX4	RESEX5	RESEX6	
361	RESTART KRA025 RESTA8	OPL (64) RESTA1 RESTA9	10003 RESTA2 KRA255	0352 RESTA3 KRA267	73/09/25. RESTA4 RESTA10	RESTA3A KRA390	KRA110 KRA404	RESTA5 RESTA11	RESTA6 N14000	RESTA7 RESTA12	KRA125 KRA559	KRA127 RESTA13
362	ROUTE KRA384	OPL (64) DOK18	5745 N14000	4765	76/10/24.							
363	SETCORE	OPL (64)	713	2272	75/02/10.							
364	SFS K22000	OPL (64) SFS1	14514 N13000	4050 SFS2	73/05/24. KRA590							
365	SORT N13000	OPL (64) SORT1	3657	1454	76/01/11.							
366	SUBMIT SUBM11	OPL (64) SUBM12	13740 SUBM13	3654 SUBM14	75/04/20. SUBM14A	SUBM15	SUBM16					
367	SYSEDIT SYSED1	OPL (64) SYSED2	34635 SYSED3	4501 SYSED4	76/10/24. SYSED5	SYSED6	N14000	KRA538	SYSED7	SYSED8	SYSED9	N15000
368	TCMND KRA233	OPL (64)	1027	7063	74/09/06.							
369	TDUMP TDUMP1	OPL (64) DOK05	6754 TDUMP2	2755 (TDUMP3)	73/05/05. TDUMP4	TDUMP4A	TDUMP5	TDUMP6	TDUMP7	TDUMP8		
370	TRMDEF	OPL (64)	5610	3212	79/05/10.							
371	VALNET K21006	OPL (64) N12000	4237 N13000	4562 N14000	73/05/05. KRA561	VALNE1						
372	VERIFY N14000	OPL (64) KRA524	15137 KRA554	2525 KRA563	77/03/16.							
373	VFYLIB	OPL (64)	11471	4675	79/05/10.							
374	(00)	SUM =	2305626	LIBRARY =	18							
375	(00)	SUM =	0	LIBRARY =	19							

REC	CATALOG NAME	OF DPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
376	CPUREL	OPL (64)	231	2064	79/05/10.	
377	(00)	SUM =	231	LIBRARY =	20	
378	CMRDECK KRA287	OPL (64)	224	2665	75/05/02.	
379	CMRINST CMRIN1	OPL (64) N15000	1154	6701	78/04/10.	
380	IPRDECK KRA287	OPL (64) IPRDE1	205	4655	75/05/02.	
381	IPRINST	OPL (64)	706	0304	79/05/10.	
382	LIBDECK KRA287	OPL (64)	203	5151	75/05/02.	
383	MOVEPF	OPL (64)	72	6712	76/11/16.	
384	(00)	SUM =	3010	LIBRARY =	21	
385	GENHELP	OPL (64)	56	1375	73/05/05.	
386	GENVAL	OPL (64)	32	0362	76/01/14.	
387	(00)	SUM =	110	LIBRARY =	22	
388	EOR1	OPL (64)	3	7105	75/05/08.	
389	EOR2	OPL (64)	3	7105	75/05/08.	
390	EOR3	OPL (64)	3	7105	75/05/08.	
391	EOR4	OPL (64)	3	7105	75/05/08.	
392	EOR5	OPL (64)	3	7105	75/05/08.	
393	EOR6	OPL (64)	3	7105	75/05/08.	
394	EOR7	OPL (64)	3	7105	75/05/08.	
395	EOR8	OPL (64)	3	7105	75/05/08.	
396	EOR9	OPL (64)	3	7105	75/05/08.	
397	EOR10	OPL (64)	3	7105	75/05/08.	
398	(00)	SUM =	36	LIBRARY =	23	
399	OPL	OPLD	1361	3147	79/06/15.	
400	* EOF *	SUM =	6046755			

T0	0	COMDDIS COMPLDA DSD OFM 1DS 6DI 1LS	COMDDSP COMPRJC ELM REC 110 6DP OMF	COMDSYS COMPSCA FDL RPV 1MB 6MD 1MR	COMMSE COMPSDN IMS SET 1MC PROFILE CMD211D	COMPANS COMPSEI LFM SFM 1MT 1TN COMPBKP	COMPCEA COMPSRA MSM SFP 1RO 1TD CPD	COMP CRA COMPS SF MTR STL 1SJ COMP3XD DDF	COMP C2D COMPVMS O26 TLX 1SP SMP QIS	COMP DTS CIO PFM ORP 1TA 1TS Q26	COMP DV5 CPM PFU 1AJ 1TO CHD TMG	COMP GBN DIS PPR 1CD 6DE 1ED 1LC
T1	1	COMDDIS COMPCHA COMPRBB COMPSFI COMPVFN DSP PFM SFP ORF 1MB 6DE COMP3XD 1ED Q26	COMDDSP COMPCMX COMPRCB COMPSNT COMPVMS ELM PFU SLL ORP 1MC 6DI ADC 1LS TMG	COMDSYS COMPCRA COMPRCS COMPSRA COMPWBB EXU PPR STL OVJ 1MT 6DP BAT OMF 1LC	COMMSE COMPCVI COMP REI COMPSSE COMPWCB FDL QAC TLX 1AJ 1RI 6MD DOG 1MR	COMP ACE COMPECX COMPLRI COMPS SF COMPWVE IMS QAP VEJ 1CD 1RO CONTROL DS1 CMD211D	COMP ACS COMPFAT COMPRNS COMPSTI CIO LFM QFM OAV 1CK 1SJ COMIIES WRM ABP	COMP ANS COMPGBN COMPSI COMPSUT CPM MSM RDM OAV 1CK 1SJ COMIIES 1TS CPD	COMP CEA COMPGJN COMPRSS COMPUPP CVM MTR REC OBF 1DL 1SP COMITES ABC DDF	COMP CFP COMPLDA COMPSCA COMPUPS DIS OSB RPV OBF 1DS 1TA 1TD CHD EYE	COMP CLD COMPMRQ COMPS EI COMPUS S DIS OUT SET ODF 1TO 1TO 1TP CHD EYE	COMP CLX COMPSD COMPSFE COMPVFC DSD O26 SFM OFA 1MA 5ME 1TP XSP QIS
T2	2	COMDDIS COMPSD COMPVMS FDL QAC TLX 1CD 1SI 1TN WRM EYE	COMDSYS COMPRCB COMPWCB IMS QAP VEJ 1CK 1SJ COMITES 1TS QIS	COMMSE COMPRCS COMPWVE LFM QFM OAV 1DL 1SP 1TD CHD Q26	COMP ACE COMPLRI CIO CPM MTR REC OBF 1DS 1TA 1TP XSP TMG	COMP ACS COMPS EI CVM OSB RPV ODF 1TO 5ME ADC 1ED 1LS VMO	COMP CHA COMPS FE CVM OSB RPV ODF 1TO 5ME ADC 1ED 1LS 1LC	COMP CMX COMPS FI DIO OUT SET OFA 1MA 6DE BAT 1MR	COMP DV5 COMPS FN DIS O26 SFM ORF 1MB 6DI DOG CMD211D ABP	COMP ECX COMPS SE DSD PFM SFP ORP 1MT 6DP DS1 HFM CPD	COMP FAT COMPUPS DSP PFU SLL OVJ 1RI 1TP XSP CPD	COMP GBN COMPUS S EXU PPR STL 1AJ 1RO COMIIES SMP DDF
T3	3	COMDSYS COMPSEI CVM MTR SET ORF 1MT 1TD 1MR	COMP ACE COMPS FE DIO OSB SFM OVJ 1AJ 1RO 1TP COMPBKP	COMP CLD COMPS FN DIS O26 SFP 1AJ 1RO DOG ABP	COMP CHA COMPS RA DSD PFM SLL 1CD 1SJ DS1 CPD	COMP CMX COMPUPS DSP PFU STL 1CJ 1SJ HFM DDF	COMP FAT COMPUS S ELM PPR VEJ 1DS 1TA SMP QIS	COMP RBB COMPVMS EXU QAC OAV 1HO 1TO WRM Q26	COMP RCB COMPWEI FDL QAP OAV 1IS 6DI 1TS TMG	COMP RCS COMPWVE IMS QFM RDM OBF 1MA 1MB COMIIES 1TN XSP 1LC	COMP RNS CIO LFM RDM OBF 1MB 1TN XSP	COMP RSS CPM MSM REC ODF 1MC COMITES 1LS
T4	4	COMDDIS DIO PPR OAV 1IS 6DE WRM 1LC	COMMSE DIS QAP OBF 1MA 6DI 1TS	COMP CLD DSD QFM OBF 1MB 6DP CHD	COMP CHA DSP RDM ODF 1MC 6MD XSP	COMP CUN ELM REC OVJ 1MT COMITES 1ED	COMP FAT LFM SET 1AJ 1RI 1TN 1LS	COMP USS MSM SFM 1CD 1RO COMITES 1MR	COMP VMS MTR SFP 1CJ 1SJ 1TD DDF	CIO OSB SLL 1DL 1DS 1SP DS1 QIS	CPM O26 STL 1DS 1TA HFM Q26	CVM PFM OAV 1HO 1TO SMP TMG
T5	5	COMDDIS COMPRCS	COMP ACE COMPS CA	COMP CDI COMPS DI	COMP CKP COMPS DN	COMP CLD COMPSEI	COMP CRA COMPS ES	COMP CTI COMPS SE	COMP CUN COMPS UT	COMP CUT COMPS UT	COMP DTS COMPT GB	COMP FAT COMPT LB

DIRECT LOCATIONS.  
SYMBOL VALUE DECK REFERENCES.

		COMPUSS	COMPVMS	COMPWSS	CIO	CPM	DIO	DIS	DSD	DSP	ELM	EXU
		FDL	IMS	LFM	MSM	MTR	OSB	Q26	PFM	PFU	PPR	QAC
		QAP	QFM	RDM	REC	SET	SFM	SFP	SLL	STL	VEJ	QAU
		OAV	OBP	ODF	OFA	ORF	ORP	OVJ	1AJ	1CD	1CJ	1CK
		IDS	1IO	1IS	1MA	1MB	1MT	1RI	1RO	1SJ	1SP	1TA
		1TD	5ME	6DI	6DP	COMIIES	1TN	COMITES	1TD	1TP	DS1	1TS
		CHD	XSP	1ED	1LS	OMF	1MR	CPD	DDF	QIS	Q26	TMG
		1LC										
T6	6	COMDDIS	COMDDSP	COMPCEA	COMPCEA	COMP CRA	COMP CUN	COMP DTS	COMP FAT	COMPLDA	COMPRCS	COMPRNS
		COMPRSS	COMPSCA	COMPSEI	COMP SNT	COMP SRA	COMP SSE	COMP STI	COMP USS	COMPLDA	COMPWEI	COMPWSS
		COMPWVE	CIO	CPM	DIO	DIS	DSD	DSP	EXU	FDL	IMS	LFM
		MSM	MTR	OSB	Q26	PFM	PFU	PPR	QAC	QAP	QFM	RDM
		REC	SET	SFM	SFP	SLL	STL	VEJ	OAU	OAV	OBP	ODF
		OFA	ORF	ORP	OVJ	1AJ	1CD	1CJ	1CK	1DS	1IO	1IS
		1MA	1MB	1MT	1RI	1RO	1SJ	1SP	1TA	1TD	6DI	6DP
		6MD	COMIIES	1TN	COMITES	1TD	1TP	DS1	WRM	1TS	CHD	XSP
		1ED	1LS	OMF	1MR	CPD	DDF	QIS	Q26	TMG	1LC	
T7	7	COMDDIS	COMPCEA	COMPCEA	COMP CRA	COMP FAT	COMPLDA	COMPRCS	COMPRNS	COMPRSS	COMPSCA	COMP SDN
		COMPSEI	COMP SRA	COMP WSS	COMP WEI	COMP WVE	COMP WVE	CIO	CPM	DIO	DIS	DSD
		DSP	EXU	IMS	LFM	MSM	MTR	OSB	Q26	PFM	PFU	
		PPR	QAC	QAP	QFM	RDM	REC	SFM	SFP	SLL	STL	
		VEJ	OAU	OAV	OBP	ODF	ORP	OVJ	1AJ	1CD	1CJ	1CK
		IDS	1IO	1IS	1MA	1MB	1MT	1RI	1RO	1SJ	1SP	1TA
		1TD	5ME	6DI	6DP	6MD	COMIIES	1TN	COMITES	1TD	1TP	DS1
		WRM	1TS	CHD	XSP	1ED	1LS	OMF	1MR	CPD	DDF	QIS
		Q26	SPD	1LC								
CM	10	CPCOM	COMCMAC	COMCCVI	COMCIQP	COMDDIS	COMDDSP	COMDSYS	COMMSE	COMPANS	COMPCDI	COMPCEA
		COMP CFP	COMP CIB	COMP CKP	COMP CLD	COMP CLX	COMP CHA	COMP CHX	COMP COB	COMP CRA	COMP CRS	COMP CRI
		COMP CUA	COMP CUN	COMP CUT	COMP CVI	COMP DTS	COMP ECX	COMP FAT	COMP GJN	COMP GTN	COMP IFR	COMP IRA
		COMPLDA	COMP HRQ	COMP RCB	COMP RCS	COMP REI	COMP RJC	COMP RLS	COMP RSI	COMP SAF	COMP SCA	COMP SDI
		COMP SDN	COMP SEI	COMP SES	COMP SFB	COMP SFE	COMP SFI	COMP SNT	COMP SPA	COMP SRA	COMP SRU	COMP SSE
		COMP SSS	COMP STA	COMP STI	COMP SUT	COMP TGB	COMP TLB	COMP UPP	COMP USS	COMP VMS	COMP WCB	COMP WVE
		COMSACC	COMSSRU	COMTVDT	CALL INT	CIO	CPM	DIO	DIS	DSD	DSP	
		ELM	EXU	FDL	IMS	LFM	MSM	MTR	OSB	OUT	Q26	PFM
		PFU	PPR	QAC	QAP	QFM	RDM	REC	RPV	SET	SFM	SFP
		SLL	STL	TLX	VEJ	OAU	OAV	OBF	OBP	ODF	OFA	ORF
		ORP	OVJ	1AJ	1CD	1CJ	1CK	1DL	1DS	1IO	1IS	1MA
		1MB	1MC	1MT	1RI	1RO	1SJ	1SP	1TA	1TD	1TP	5ME
		6DE	6DI	6DP	6MD	CATLIST	CONTROL	CPUMLD	CPUMTR	DFTERM	EDIT	FNTLIST
		MAGNET	MODVAL	PROFILE	QDUMP	QLOAD	QMOVE	QREC	QREST	SFS	SYSEDIT	COMIIES
		1TN	IAFEX	COMITES	1TD	TELEX	1TP	DBFORM	TAF	COMCCDP	COMP3XD	ADC
		BAT	DUG	DS1	HFM	SHP	WRM	1TS	DEMUX	DSDI	CHD	XSP
		1ED	1LS	OMF	1MR	XEDIT	CMO211D	COMP BKP	ABP	CPD	DDF	EYE
		QIS	Q26	SPD	TMG	VMD	1LC					
LA	15	COMP REL	COMP RLI	DIS	DSD	IMS	Q26	PPR	QAP	REC	OAU	OAV
		OBF	OBP	ODF	OFA	ORF	ORP	OVJ	6DI	CPHEM	CPUMTR	PFLDAD
		KTS DMP	1LS	OMF	CPD	QIS	Q26					
IR	50	COMP CIB	COMP COB	COMP SAF	COMP PF M	CIO	CPM	CVL	DIO	DIS	DSP	ELM
		EXU	FDL	IMS	LFM	MSM	OUT	Q26	PFM	PFU	PPR	QAC
		QAP	QFM	RDM	REC	RPV	SFM	SFP	SLL	STL	TLX	VEJ
		OBF	OBP	1AJ	1CD	1CJ	1CK	1DL	1DS	1IO	1IS	1MA

SYMBOL	VALUE	DECK REFERENCES.	OPL FILE=OPL	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30.	15.07.22.	PAGE	3				
			1MB COMITES OMF VMO	1MC 1TD 1MR 1LC	1MT 1TP COMPBKP	1RI DOG ABP	1RO HFM CPD	1TA SMP DDF	1TO ITS EYE	5ME DSDI QIS	CPUMTR CHD Q26	COMITES XSP SPD	1TN 1LS TMG
RA	55	CETEXT COMPSTA DIS PPR VEJ ISI 1TP OMF COMEJCA	CPCOM COMPUPP DSP QAC OBP 1TA TAF 1MR	COMDDIS COMPUSS ELM QAP 1AJ 1TO COMSSTM ABP	COMPCIB COMPWBB EXU QFM 1CD CPUMTR HFM CPD	COMPCLX COMPWCB FDL RDM 1DS PFILES SMP DDF	COMPCMA COMSJRO IMS RPV 1IO COMITES ITS QIS	COMPCOB COMSPFM LFM SFM 1IO 1TN DSDI Q26	COMPCUA CIO MSM SFP 1MA IAFEX CHD SPD	COMPRBB CPM Q26 SLL 1MT COMITES XSP TMG	COMPRCB CVL PFM STL 1RI 1TD 1ED VMO	COMPSPA DIO PFU TLX 1RO TELEX 1LS 1LC	
FL	56	CETEXT CIO MTR SET 1MT SYSEDT 1TS TMG	CPCOM CPM Q26 SFM 1RI 1TP MST COMKTLD	COMCMAC CVL PFM SFP 1RO 1SI TAF CHD 1LC	COMPCIB DIS PFU SLL 1SI COMCCDP COMSSTM XSP COMAUCR	COMPCLX DSD PPR STL 1SJ 1TA ADC CPD	COMPCMA DSP QAC TLX 1TA CONTROL DOG DDF	COMPCOB ELM QAP VEJ 1AJ CPMEM DSI EYE	COMPRLS EXU FDM 1QF 1CPUMTR QIS	COMPRSI FDL RDM 1DS 1IO FNTLIST SMP Q26	COMSEXP LFM REC 1IO 1FNTLIST SMP Q26	COMSMTX MSM RPV 1MA QFSP WRM SPD	
ON	70	COMCMAC COMPVMS DIO OUT SET ORP 1MT 6DP PFILES 1TD COMCCDP 1ED Q26	COMCWH COMPWBB DIS Q26 SFM OVJ 1RI ACCFAM PFLoad TELEX DOG 1LS SPD	COMMSE COMPWEI DSD PFM SFP 1AJ 1RO CHKPT QDUMP COMBDBM HFM OMF TMG	COMPCVI COMPWSS ELM PPR SLL 1CD 1SI CONFIG QFSP COMBINT SMP 1MR COMAMSS	COMPMRQ COMPWVE ELM QAC STL 1CJ 1SJ CPMEM QMOVE COMKNAM ITS MREC MAC2	COMPRBB COMSMSP EXU QAC TLX 1CK 1SP DAYFILE QREC COMKNWC DSDI XEDIT	COMPRCS COMSMTX FDL QAP VEJ 1DS 1TA DFTERM RESEQ 1TP SCRSIM COMPBKP	COMPSCA COMSSCR IMS QFM OAU 1IO 1TO EDIT RESEX DBFORM STIMULA ABP	COMPSDN CIO LFM RDM OBP 1IS 5ME MAGNET TRMDEF KTSOMP ABC CPD	COMPSSE CPM MSM REC ODF 1MA 6DE MODVAL 1TN LIBTASK CHD DDF	COMPUSS CVL MTR RPV ORF 1MB 6DI PFDUMP IAFEX TAF XSP QIS	
HN	71	COMMSE EXU QFM 1IO COMITES TMG	COMPMRQ IMS REC 1IS 1TD	COMPSFI LFM SET 1MA 1TP	COMPVFC MSM SFM 1MT DSI	COMPVMS MTR SLL 1RI 1TS	COMSMSP Q26 STL 1RO 1LS	CIO PFM VEJ 1TA OMF	CPM PFU 1AJ 6DE 1MR	DIS PPR 1CJ 6DP CPD	DSD QAC 1CK COMITES DDF	DSP QAP 1DS 1TN Q26	
TH	72	COMPCRA MSM 1AJ 1LS	COMPIRA PFM 1CJ OMF	COMPSCA PFU 1MB 1MR	COMPSEI QAC 1MT DDF	COMPSNT REC 1RI	COMPSRA RPV 1RO	COMPSSE SET 1TA	CIO SLL 1TO	CPM STL CPUMTR	DIO OAV 1TS	DSD ORF 1ED	
TR	73	COMDDSP LFM REC 1CK 1TA CHD	COMMSE MSM SET SFM 1DS 1TO 1MR	COMPWEI MTR SFM 1IO 5ME CHD211D	CIO Q26 SFP 1IS 6DP COMPBKP	CPM PFM SLL 1MB RESEX ABP	CVL PFU STL 1MC 1TN QIS	DIO PPR OAU 1MT 1TD Q26	DSD QAC OBF 1RI DBFORM	DSP QAP 1AJ 1RO COMP3XD	FDL QFM 1CD 1SJ 1TS	IMS RDM 1CJ 1SP DEMUX	



ETB	6	COMTVDT	DSDI										
SLM	106	COMMSE MTR 1T0	COMPCRA PFM 6DI	COMPRSS PFU 6DP	COMPSEI PPR OSDI	COMPSRA SLL 1MR	COMPWSS 1CJ CPD	COMPWVE 1CK DDF	C10 10S	IMS 1IS	LFM 1RO	MSM 1TA	
MSD	107	DIS Q26	026	PPR	SET	SFP	1CD	6DI	1TN	1TD	DSDI	QIS	
PPR	114	PPCOM LFM RDM 1CD 1RI 1TD XSP TMG	C10 MSM REC 1CJ 1RO 1TP 1ED VMO	CPM MTR RPV 1CK 1SI ADC 1LS 1LC	CVL OUT SFM 1DL 1SJ BAT 1MR	D10 026 SFP 1DS 1SP DDG ABP	DIS PFM SLL 1IO 1TA DS1 CPD	DSP PFU STL 1IS 1TO HFM DDF	ELM PPR TLX 1MA 5ME SMP EYE	EXU QAC VEJ 1MB 6DI WRM QIS	FDL QAP 0BF 1MC CPUMTR 1TS Q26	IMS QFM 1AJ 1MT 1TN CHD SPD	
FTN	336	DSD	SLL	1MB	IAFEX	TELEX	DSDI	ACPD					
RCH	377	1AJ	COMITES	DSDI									
DCH	406	COMITES	DSDI	MST	TMG								
DFM	442	COMPSSE LFM REC 1CJ 1SI DOG 1MR	CALLINT MSM RPV 1CK 1TA DS1 CMD2110	C10 OUT SFM 1DS 5ME HFM CPD	CPM 026 SFP 1IO 6DI SMP DDF	CVL PFM SLL 1IS 6DP WRM EYE	DIS PFU TLX 1MA 1TN 1TS QIS	DSP PPR VEJ 1MB 1TO DSDI TMG	ELM QAC OAV 1MC 1TP CHD VMO	EXU QAP OAV 1MT COMP3XD XSP 1LC	FDL QFM ORP 1RI ADC 1ED COMZITM	IMS RDM 1AJ 1RO BAT LLS	
EXR	476	C10 SFP	CPM ODF	DSP OVJ	IMS 1IO	LFM 1MT	PFU 1RO	PPR 1TA	QAC DSDI	QAP 1LS	QFM DDF	REC	
RDS	560	COMDDSP MTR OAV DOG	COMPACE 026 ORF DS1	COMPRNS PFM ORP WRM	COMPRSS PFU 1CJ OSDI	COMPWVE PPR 1CK CHD	C10 QAC 1IS 1MR	DIS QFM 1MT DDF	FDL RDM 1TO EYE	IMS REC 6DI QIS	LFM SFM ADC Q26	MSM OAU BAT	
WDS	563	COMPWEI SFM 1RO	COMPWSS SLL 1TA	COMPWVE OAU 1TO	C10 OAV 6DI	IMS ORF DSDI	MSM ORP OMF	NTR 1AJ 1MR	PFM 1CJ CPD	PFU 1CK DDF	PPR 10S	QAC 1IS	
PPFW	1100	COMSMSC LFM REC 1CJ 1RO 1TN 1TS TMG	C10 MSM RPV 1CK 1SI COMITES CHD VMO	CPM OUT SET 1DL 1SJ 1TD XSP 1LC	CVL 026 SFM 1DS 1SP 1TP 1ED	D10 PFM SFP 1IO 1TA ADC LLS	DIS PFU SLL 1IS 1TO BAT 1MR	DSP PPR STL 1MA 6DE DOG ABP	ELM QAC TLX 1MB 6DI DS1 CPD	EXU QAP VEJ 1MC 6DP HFM DDF	FDL QFM 1AJ 1MT 6MD SMP EYE	IMS RDM 1CD 1RI COMITES WRM SPD	

CROSS REFERENCE OF OPL. MONITOR FUNCTIONS.		OPL FILE=OPL			SYS. TEXT=NOSTEXT		NDS 1-9E07T/R4A.		79/10/30. 15.07.22.			PAGE 6	
SYMBOL	VALUE	DECK REFERENCES.											
CCHM	3	COMDDSP	COMDTFN	DSD	MTR	DDF	TMG						
DCHM	4	COMDTFN	DSD	MTR	PPR								
DEQM	5	COMDDSP 1TN	COMDTFN COMITES	LFM 1TD	MTR 1TS	REC 1ED	ODF QIS	1CD Q26	1CJ	110	1MT	COMIIES	
DFMM	6	COMDTFN	MTR	PPR	1MT	TMG							
SEQM	10	COMDTFN 6DI	DSD	IMS	MSM	MTR	QAP	RDM	STL	1DS	110	1MT	
PRLM	11	COMDTFN	MTR	PPR	1MT	CPUMTR	1ED	TMG					
RCHM	12	COMDTFN	DSD	MTR	PPR	1MT							
REMM	13	COMDTFN	CPM	DIS	MTR	QIS							
REQM	14	COMDDSP Q26	COMDTFN	LFM	MTR	110	1MT	COMIIES	COMITES	1TS	1ED	QIS	
ROCM	15	COMDTFN 1DS	C10 1MA	CPM 1SJ	CVL 1SP	DIS 1TA	LFM QIS	MTR	PFM	SFP	1AJ	1CK	
RPRM	16	COMDTFN 1SI	CPM 1SP	DIS 1TA	MTR 1TP	Q26 SMP	1AJ CHD	1DS DDF	110 QIS	11S Q26	1MT TMG	1RI	
RJSM	17	COMDTFN	MTR	QFM	SFM	OVJ	1AJ	1DS	1SJ	1TA	1TP		
RSTM	21	COMDTFN 1RO EYE	COMPRES 1SJ	COMPRLS ADC	COMPRSI BAT	MTR DOG	REC DS1	SLL SMP	STL WRM	1AJ 1TS	110 1LS	1MT ODF	
DSRM	23	COMDTFN	DSD	MTR	1MB								
ECXM	24	COMDTFN	MTR	1RI	1RO								
TGPM	25	COMDTFN	MTR	1DS	1TO								
TSEM	26	COMDTFN 1TN	CPM IAFEX	MTR 1TD	RPV TELEX	TLX	1AJ	1DS	1RI	1RO	1TA	1TO	
DEPM	27	COMDTFN	COMMSE	MTR	6DI	6DP							
ORCM	30	COMDTFN	C10	D10	MTR	1MT							
SCPM	31	COMDTFN	CPM	MTR									
EATH	32	COMDTFN CPD	COMPCUT	CPM	IMS	MSM	MTR	OFA	ORP	1DS	1MT	1SP	
DSWM	33	COMDTFN	MTR	1MT	6DI	6DP	6MD	TMG					
CPUM ABTM	36 36	COMPMRQ COMDTFN PFM	MTR CPM PPR	PPR CVL QAC	CPUMTR DIS QAP	DSP QFM	ELM RDM	EXU RPV	IMS SFM	LFM SFP	MSM SLL	Q26 TLX	



SYMBOL	VALUE	DECK REFERENCES.										
		VEJ BAT EYE	1AJ DOG VMO	1IS DS1 1LC	1MA SMP	1MB WRM	1MT ITS	1SI CHD	6DI XSP	CPUMTR 1LS	1TP 1MR	ADC DDF
CCAM	37	COMDTFN 1SP	DIO 1TA	QAC CPUMTR	REC CPD	SLL	STL	1CK	1DS	1MT	1RO	1SJ
CEFM	40	COMDDSP 026 1DS QIS	COMDTFN PFM 1MA	CALLINT PFU 1MT	CIO PPR 1RI	CPM QAC 1TA	DIS QFM CPUMTR	DSD RPV 1TN	DSP SFM 1TD	FDL SFP 1ED	LFM 1AJ 1LS	MTR 1CK DDF
DCPM	41	COMDTFN ITS	DIS CHD	EXU 1LS	MTR QIS	026	RPV	1AJ	1DS	CPUMTR	1TP	SMP
SFIM	42	COMDTFN	COMPSFI	DSD	SET	CPUMTR						
DTKM	43	COMDTFN SFM 1RO	CIO SFP 1TA	DSP SLL 1TO	IMS VEJ CPUMTR	LFM ODF XSP	MSM ORP OMF	PFM 1CJ 1MR	PFU 1CK CPD	PPR 1DS DDF	QFM 1IS	REC 1RI
DPPM	44	COMDTFN MSM SFM 1DS 1TO SMP EYE	CIO OUT SFP 1IO 5ME WRM QIS	CPM 026 SLL 1IS CPUMTR 1TS Q26	CVL PFU STL 1MA 1TN CHD SPD	DIO PPR TLX 1MB 1TD XSP TMG	DIS QAC VEJ 1MC 1MT 1TP 1ED VMO	DSP QAP OBF 1AJ 1RO ADC 1LS 1LC	ELM QFM 1AJ 1RO BAT 1MR	EXU RDM 1CD 1SI DOG ABP	IMS REC 1CK 1SJ DS1 CPD	LFM RPV 1DL 1TA HFM DDF
ECSM	45	COMDTFN CPUMTR	COMPOTS OMF	COMPIFR 1MR	DIS	DSD	IMS	MSM	MTR	SFM	1AJ	1DS
RCLM	46	COMDTFN	DIS	DSD	EXU	MTR	RPV	CPUMTR	1TN	1TD	CHD	QIS
RCPM	47	COMDTFN 1TP	DIS HFM	EXU SMP	MTR ITS	RPV CHD	STL CPD	1AJ QIS	1DS TMG	1RI	1RO	CPUMTR
RDCM	50	COMDTFN 1TD	CPM 1TS	MSM 1LS	QAP	REC	SFM	1AJ	1MT	1TA	CPUMTR	1TN
IAUM	51	COMDTFN	COMPSUT	MSM	PFM	PFU	OAU	OAV	OFA	1TA	CPUMTR	1MR
ACTM	52	COMDTFN	CPM	OAU	1AJ	1CJ	1RI	1RO	1TA	CPUMTR		
RPPM	53	COMDTFN 1TN	DIS 1TD	DSD DOG	MTR SMP	026 1TS	STL 1LS	1CD DDF	1IO QIS	1MT Q26	1SJ	CPUMTR
RSJM	54	COMDTFN CPUMTR	COMPRESI	COMPRSI	QFM	1CK	1DS	1MB	1RO	1SJ	1SP	1TA
RTCM	55	COMDTFN REC CPUMTR	CIO SLL 1TP	DSP VEJ XSP	IMS OBF OMF	LFM 1CJ 1MR	MSM 1CK CPD	PFM 1DS	PFU 1IS	PPR 1RO	QAP 1TA	QFM 1TO
SFBM	56	COMDTFN	COMPSFB	CIO	PFU	ORF	1MT	CPUMTR	1LS	DDF		

MONITOR FUNCTIONS.  
SYMBOL    VALUE    DECK REFERENCES.

STBM	57	COMDTFN COMPSUT RDM IIS	COMPCDI COMPTGB REC IRO	COMPCEP COMPTLB SFM ISJ	COMPCKP COMPUSS OAV ITA	COMPCRA CPM ODF 6DI	COMPCTI DSD OFA CPUMTR	COMPCUT IMS ORP ILS	COMPSDI MSM IAJ OMF	COMPSEI PFM ICJ IMR	COMPSES PFU ICK DDF	COMPSTI QFM IDS
UADM	60	COMDTFN QFM	CIO TLX	CPM ODF	DSD IAJ	DSP ICK	ELM IDS	FDL IMA	IMS IRI	LFM IRO	OUT CPUMTR	PFM
SPLM	61	COMDTFN	DIS	PPR	REC	SLL	STL	IAJ	IDL	CPUMTR	QIS	Q26
JACH	62	COMDTFN	REC	IAJ	ICJ	IRI	IRO	ISJ	CPUMTR			
DLKM	63	COMDTFN	PFM	REC	IIS	CPUMTR	ITP					
TDAM	64	COMDTFN CPUMTR	CIO CPD	LFM TMG	PFM	PFU	ORF	IAJ	IDS	IMA	IMT	IRI
TIOM	65	COMDTFN	IMT	CPUMTR								
RLMM	66	COMDTFN	COMPSRU	CPM	DIS	OAU	IAJ	IDS	IRI	IRO	CPUMTR	QIS
LCEM	67	COMDTFN	IAJ	CPUMTR								
CSTM	70	COMDTFN	IMS	SFM	ODF	IAJ	IMA	IRI	CPUMTR	CPD		
CKSM	71	COMDTFN	RPV	IAJ	IRI	CPUMTR						
LDAM	72	COMDTFN	COMSMSP	MTR	IIS	6DI	CPUMTR					
VMSM	73	COMDTFN	DSD	MSM	REC	ICK	SME	CPUMTR				
PIOM	74	COMDTFN	6DE	CPUMTR								
MXFM	76	COMDTFN OAV IRO	COMPSCA ODF ITA	COMPWSS OFA ITD	CIO ORF CPUMTR	LFM IAJ XSP	MSM ICD ILS	MTR ICJ	PFM ICK	QAP IID	SFM IMA	STL IMT

CROSS REFERENCE OF OPL.  
CENTRAL MEMORY POINTERS.

OPL FILE=OPL

SYS. TEXT=NOSTEXT

NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 9

SYMBOL VALUE DECK REFERENCES.

RPLP	1	DSD	REC	SLL	STL	1AJ	1CK	DSDI				
PPCP	2	COMPMRQ	DIS	DSD	PPR	SET	STL	CPUMTR	COMIIES	COMITES	ITS	DSDI
PLDP	2	ABP	CPD	QIS								
		PPR	REC	SLL	STL	CPUMTR	DSDI					
DFPP	3	DIS	DSD	IMS	MSM	MTR	PPR	REC	SET	SFM	SLL	STL
		1CJ	1CK	1RI	1RO	5ME	CPUMTR	DSDI	QIS			
JBCP	4	COMPRJC	CIO	DSD	PFM	SET	1SP	CPUMTR	IAFEX	TELEX	DSDI	
FNTP	4	COMPFAT	COMPSAF	CIO	CPM	DIS	DSD	DSP	FDL	LFM	OUT	026
		PFM	PFU	QAC	QAP	QFM	REC	SET	SFM	SFP	SLL	STL
		OAU	OBF	ODF	ORF	1AJ	1CJ	1CK	1DS	1MT	1RI	1RO
		1SJ	1SP	1TA	CPUMLD	CPUMTR	ENQUIRE	DSDI	1LS	CPD	DDF	QIS
		Q26	TMG									
ESTP	5	COMDDSP	COMPCFP	COMPSCA	COMPSDN	COMPSFE	COMPVMS	CVL	DIS	DSD	EXU	LFM
		MSM	MTR	PFM	PPR	RDM	REC	SET	SFM	SFP	SLL	STL
		1CJ	1CK	1DS	1IO	1MT	1RO	1SJ	1SP	6DE	BLANK	CONF IG
		CPUMTR	ENQUIRE	MSI	PFCAT	PFDUMP	PFLDAD	PFS	RESEX	COMIIES	1TN	COMITES
		1TD	1TP	COMP3XD	ITS	DSDI	1ED	MREC	CPD	QIS	Q26	MAC2
LBDP	6	CPM	FDL	LFM	REC	SLL	DSDI					
MSAP	6	DSD	SET	CPUMTR	CPD							
CLDP	7	COMPCLD	EXU	LFM	REC	SLL	STL	OVJ	1AJ	CPUMTR	DSDI	
PXPP	62	COMPMRQ	PPR	CPUMTR	DSDI							



STLL	15	COMPSCA SLL PFDUMP	COMPSON ORP PFLOAD	COMPSFE ICK RESEX	COMPVMS IDS DSDI	DSD IIS OMF	IMS IMT IMR	MSM ISP	PFM CONFIG	RDM CPUMTR	REC MSI	SET PFCAT
DDLL	16	COMPVMS IIS MREC DSDI	CVL CONFIG	DSD CPUMTR	IMS MSI	MSM PFCAT	MTR PFDUMP	PFM PFLOAD	RDM QFSP	REC RESEX	SET DSDI	ICK IMR
IN6L	16											
ISLL	17	MSM	DSDI									
IN7L	17	DSDI	SPD									
MSTL	20	COMPORA PFM CPUMTR DDF	COMPPTS REC MSI	COMPIRA SET PFCAT	COMPSCA SLL PFDUMP	COMPSEI OAV PFLOAD	COMPSTN ORF PFS	COMPORA ICK QFSP	COMSLSD IDS RESEX	CIO IRO OMF	IMS ITA IMR	MSM CONFIG MREC
CMRL	20	COMPCHX	MTR	ISJ	DSDI	CPD						
JSNL	22	DSD	MTR	REC	SET	DSDI	QIS					
ACML	23	COMDSYS	ISJ	DSDI	CPD	QIS						
AECL	23	DSDI	CPD									
MSCL	24	DSD	MTR	SET	CPUMTR	DSDI						
ECRL	25	COMPECX CPD	DIS	MTR	REC	SET	IMC	ISJ	ISP	CPUMLD	CPUMTR	DSDI
JDAL	26	DSD	MTR	IMT	DSDI							
PDTL	27	COMPUSS REC	COMPWEI SFM	COMPWSS VEJ	COMPWVE OAU	DSD ORP	MSM ITA	MTR CPUMTR	PFM DSDI	PFU XSP	PPR	QAP
TIML	30	COMDSYS SMP	DSD DSDI	MTR ILS	QAP CPD	SET QIS	SFM	OBP	IDS	IMB	ITA	CPUMTR
DTL	31	CPM QIS	DSD	REC	SET	SFM	OBP	ICJ	ITA	SMP	DSDI	ILS
JSCL	40	DSD	MSM	REC	SET	ICK	ISJ	ISP	CPUMTR	DSDI	CPD	
IPRL	42	CVL ITO	026 BLANK	SET CPUMTR	OVJ QFSP	IAJ RESEX	ICD ITN	IDS ITD	IIO DSDI	IMT IED	IRO CPD	ITA
SSTL	43	COMPORA OVJ QFSP	CPM IAJ DSDI	DIS ICK DDF	DSD IDS QIS	MSM IMA ILC	MTR IMB MAC2	PFM IMC	QFM ISJ	REC ISP	SET CPUMLD	SLL CPUMTR
SSCL	44	COMPCHX	DSD	REC	TLX	IAJ	IDS	ISJ	ISP	CPUMTR	DSDI	
PPAL	50	MTR	PFU	IIO	IMT	ISJ	ITA	CPUMTR	DSDI	CPD		
MSEL	52	PPR	DSDI									
CMCL	57	DSD CM0211D	MTR CPD	PPR QIS	SET TMG	ICD	IMT	CPUMLD	CPUMTR	COMP3XD	DSDI	IED



CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 13  
CENTRAL MEMORY LOCATIONS.  
SYMBOL VALUE DECK REFERENCES.

CTILL	6	PPCOM DDF	COMSYS QIS	COMPVMS ACPD	MTR	STL	COMIIES	COMITES	DSOI	CMD211D	COMSCPD	CPD
-------	---	--------------	---------------	-----------------	-----	-----	---------	---------	------	---------	---------	-----





CROSS REFERENCE OF OPL.  
CONTROL POINT AREA WORDS.  
SYMBOL VALUE DECK REFERENCES.

OPL FILE=OPL

SYS. TEXT=NOSTEXT

NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 15

IN6W	46	DSDI	COMPBKP									
IN7W	47	DSDI	COMPBKP									
SRUW	50	CPM ENQUIRE	DIS DSDI	DSD	QAC	1AJ	1CJ	1RI	1RO	1SP	1TA	CPUMTR
ACTW	50	PPCOM	CPM	1AJ	1CJ	1MA	1TA					
CPTW	51	CPM SMP	SET DSDI	SFM CPD	STL QIS	1AJ	1CJ	1RI	1SP	1TA	CPUMTR	ENQUIRE
IOAW	52	CID	FDL	PFM	1AJ	1MA	CPUMTR	ENQUIRE	DSDI			
ADAW	53	CPM	ENQUIRE	DSDI								
MP1W	53	1TA	CPUMTR	DSDI								
MP2W	54	CPUMTR	DSDI									
MP3W	55	CPM	CPUMTR	DSDI								
STLW	56	COMPSRU DSDI	CPM	DIS	DSD	SET	STL	1AJ	1SJ	1TA	CPUMTR	ENQUIRE
SRJW	57	CPM	1RO	1SJ	1TA	CPUMTR	ENQUIRE	DSDI				
CPJW	60	CPM	1AJ	1CJ	1SJ	1TA	CPUMTR	ENQUIRE	DSDI	QIS		
FPFW	61	COMPSRU	CPM	1AJ	1CJ	1RI	1RO	1SP	1TA	CPUMTR	DSDI	
FLCW	62	COMPRSI 1SJ	CPM 1TA	DIS CPUMTR	MSM ENQUIRE	1AJ 1TP	1IO DSDI	1IS 1LS	1MA QIS	1MT	1RI	1RO
ELCW	63	COMPRESI DSDI	CPM	DIS	1AJ	1MA	1RI	1RO	1SJ	1TA	CPUMTR	ENQUIRE
SSCW	64	CPM	DSD	REC	1AJ	1DS	1RI	1RO	1SP	CPUMTR	DSDI	
T10W	65	CID	CPM	TLX	1RI	1RO	DSDI					
T1AW	65	RPV	TLX	1AJ	1RI	DSDI						
LOFW	65	1AJ	1RO	CPUMTR	DSDI							
TXSW	65	COMPSSE	1RI	1RO	ENQUIRE	DSDI						
PFCW	66	COMPSFE SFM DFTERM	COMPUSS STL ENQUIRE	CID OAV RESEX	CPM 1AJ DSDI	DIS 1CJ ODF	DSP 1RI QIS	LFM 1RO	MSM 1SJ	PFM 1TA	QFM BLANK	REC CPUMTR
UIDW	67	COMPCUN OVJ	COMPUSS 1AJ	COMSSSJ 1CJ	CPM 1RI	DIS 1SI	DSP 1TA	LFM ENQUIRE	MSM DSDI	PFM QIS	QFM	SFM
TINW	70	CID	1RI	1RO	DSDI							
EECW	70	PPCOM	CPM	DIS	RPV	TLX	1AJ	1RI	1RO	DSDI		
TERW	71	CPM	DIS	PFM	SFM	1AJ	1DS	1RO	DSDI			
TFSW	71	COMPUSS ODF CPD	CPM 1AJ QIS	DIS 1CJ	DSD 1DS	DSP 1RI	LFM 1RO	PFM 1SJ	QAC 1TA	QFM CPUMTR	REC RESEX	STL DSDI

CSPW	72	COMPRCS IRI ILS	CPM IRO QIS	DIS ISI	DSD ISJ	LFM ISP	MSM ITA	REC ENQUIRE	SFP ITN	IAJ ITD	IIS ITP	IMT DSDI
CSSW	73	DIS	LFM	IAJ	ICJ	IRI	ITA	CPUMTR	DSDI			
RFCW	74	CPM ISJ	DIS ITA	PFM CPUMTR	QAC ENQUIRE	REC RESEX	ODF ITP	IAJ DSDI	ICJ	IDS	IMA	IMT
ALMW	75	COMPUSS IRI	COMSSSJ IRO	CPM ISJ	DSP ITA	LFM CPUMTR	QFM DSDI	SET	SFM	STL	OBF	IAJ
ACLW	76	COMSSSJ IAJ	CIO IMA	DSP IRI	ELM ISJ	LFM ENQUIRE	OUT DSDI	PFM	QFM	SET	STL	ODF
AACW	77	COMPCUA CPUMTR	COMPSSE DSDI	COMSSSJ	CPM	LFM	PFM	SET	STL	IRI	ISJ	ITA
ICAW	100	IMT	CPUMTR	ITN	ITD	ITP	DSDI					
SEPW	101	COMPCUA SFP HFM	COMPUSS SLL DSDI	CIO VEJ QIS	CPM OBF	DIS IAJ	DSD IIS	DSP IMA	LFM IRI	PFM IRO	QFM ITA	SFM CPUMTR
SPCW	102	PPCOM CPUMTR	CVL DSDI	DIS QIS	DSD	LFM	PFM	SFP	IAJ	IDS	IRI	IRO
JCDW	103	CPM	IRI	ENQUIRE	DSDI							
JCRW	104	CPM	IAJ	IRI	CPUMTR	ENQUIRE	DSDI					
DBAW	105	CPM	DSD	O26	IAJ	IDS	IMA	IRI	IRO	CPUMTR	DSDI	QIS
LB1W	106	CPM	FDL	IRI	CPUMTR	ENQUIRE	DSDI	O26				
LB2W	107	PPCOM	FDL	IRI	DSDI							
LB3W	110	CPM	FDL	IRI	DSDI							
PPDW	111	CIO	IAJ	IRO	DSDI							
SSDW	112	REC	IAJ	IRO	CPUMTR	DSDI						
CPLW	113	SET	STL	IAJ	ISJ	CPUMTR	DSDI					
CSBW	130	COMPRCS IRO	COMSBIO ISI	DIS ISJ	DSD CPUMTR	LFM ITP	MSM DSDI	SFP ILS	IAJ QIS	IIS	IMT	IRI
MSFW	556	COMPMSD 60I	DIO 60P	DIS QIS	MTR Q26	O26	PPR	REC	SLL	STL	ICD	60E
EPFW	7500	COMMSE IAJ	COMSMSP ICJ	CPM IDL	DSP IMC	PFM IRO	PPR ITA	QAC ITO	QFM 6DI	REC 60P	SLL CPD	STL

CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 17  
CONTROL POINT AREA WORDS.  
SYMBOL VALUE DECK REFERENCES.

ACTWE	54	PPCOM		
CSBWE	200	DIS	1RI	CPUMTR
ACTWL	4	CPH	1CJ	1TA



CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NO TEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 19  
 FILE TYPES, AND MASS STORAGE CONSTANTS.  
 SYMBOL VALUE DECK REFERENCES.

INFT	0	PPCOM SET CPUMTR 1LS	COMPUSS STL ENQUIRE CPD	COMSIOQ VEJ FNTLIST QIS	CIO ODF LDI	DSD IDS QDUMP	DSP 1MA QLOAD	LFM 1RI QMOVE	QAC 1SJ QREC	QAP 1SP IAFEX	QFM 1TA TELEX	REC CONTROL XSP
ROFT	1	PPCOM 1RO CPD	DSD 1SJ QIS	QAC 1SP	REC 1TA	SFM CPUMTR	ODF ENQUIRE	1AJ QLOAD	1CJ QMOVE	IDS QREC	1MA IAFEX	1RI TELEX
PRFT	2	CPCOM QAP QLOAD	PPCOM QFM QMOVE	COMCVFE REC QREC	COMPUSS SFP 1LS	COMSIOQ OBF QIS	CIO ODF	DSD 1CJ	DSP 1SP	LFM CONTROL	OUT ENQUIRE	QAC FNTLIST
PHFT	3	CPCOM QAP QLOAD	PPCOM QFM QMOVE	COMCVFE REC QREC	COMPUSS SFP 1LS	COMSIOQ OBF	CIO ODF	DSD 1CJ	DSP 1SP	LFM CONTROL	OUT ENQUIRE	QAC FNTLIST
TEFT	4	PPCOM CPUMTR	DSD ENQUIRE	QAC	REC	ODF	1AJ	IDS	1MA	1RO	1SP	1TA
S1FT	5	COMCVFE	COMSIOQ	DSP	QFM	REC	SFM	ODF	QLOAD	QMOVE	QREC	
S2FT	6	COMSIOQ	DSP	QFM	REC	SFM	ODF	QLOAD	QMOVE	QREC		
S3FT	7	COMCVFE	COMSIOQ	DSP	QFM	REC	ODF	QLOAD	QMOVE	QREC		
L1FT	10	IMS 1IS	LFM 1TA	MSM CHKPT	PFM CONTROL	PFU ENQUIRE	QFM RESTART	REC	SFM	SLL	STL	ODF
QUFT	10	DSD	DSP	LFM	MSM	QFM	1SP	CHKPT	COMSCPD	CPD	DDF	ACPD
PTFT	11	CIO PFILES	LFM IAFEX	PFM TELEX	REC XEDIT	ODF	1AJ	1RO	1TA	CHKPT	CONTROL	ENQUIRE
PMFT	12	CIO CONTROL ODF	FDL ENQUIRE Q26	LFM PACK	MSM RESEQ	PFU RESTART	PFU SORT	REC DBFORM	SFM LIBTASK	SFP 1MR	ODF XEDIT	CHKPT CPD
FAFT	13	PPCOM ENQUIRE	COMPFAT QLOAD	MSM QMOVE	PFU QREC	REC 1MR	SFM	ODF	ORF	IDS	1MT	CPUMTR
SYFT	14	IMS QREC	MSM 1MR	REC	SET	SFM	SLL	ODF	1CK	ENQUIRE	QLOAD	QMOVE
LOFT	15	CIO 1CJ CPD	DSD 1IS Q26	DSP 1MT	LFM 1RO	PFM 1TA	QFM CHKPT	REC CONTROL	SLL ENQUIRE	STL QLOAD	OBF QMOVE	ODF RESTART
CMFT	16	CIO CONTROL	DSD ENQUIRE	LFM RESTART	QAC 1LS	REC CPD	SET Q26	SLL	ODF	1AJ	1MA	CHKPT
MXFT	17	COMPSS	CIO	LFM	QFM	REC	ODF	1CJ	CONTROL	ENQUIRE	QLOAD	ACPD
FSMS	1	COMPRSS QFM 1RI	COMPSS SFM 1RO	CIO SFP 1TA	DSD SLL PFLoad	DSP STL IAFEX	EXU OAV TELEX	FDL 1AJ XSP	LFM 1CD 1LS	MSM 1CJ 1MR	PFM IDS	QAC 1IS

BFMS	6776	PPCOM COMSSSE PFU ORF IRO OMF	COMPRCS COMSWEI QAC ORP ISJ LMR	COMPRSS CIO QAP IAJ ITA DDF	COMPUSS DSP QFM ICJ SME	COMSWEI EXU RDM ICK 6DI	COMPWSS FDL REC IDS 6DP	COMSDSL IMS SFM LIO QDUMP	COMSIOQ LFM SLL LIS QLOAD	COMSJRD MSM STL IMA QMOVE	COMSLSD MTR VEJ IMT XSP	COMSPFM PFM OBP IRI ILS
FNSS	7000	COMPRSS QAC IRO	COMPUSS QAP ITA	COMPWSS QFM QDUMP	COMSWEI REC QLOAD	CIO SFM QMOVE	DSP SLL XSP	IMS VEJ IMR	LFM ICJ DDF	MSM LCK	PFM IDS	PFU IMA
EQSS	7005	COMPWSS	COMSPFM	DSP	PFM	SFM	VEJ	QLOAD	QMOVE			
FTSS	7006	COMPRSS ITA	COMPWSS	COMSPFM	MSM	PFM	PFU	QFM	RDM	REC	ORP	LIS
NSSS	7007	COMPRSS	COMPWSS	PFM	DDF							
FASS	7011	COMPUSS ICJ	COMPWSS IDS	CIO IRO	DSP	LFM	OUT	PFM	QFM	SFM	SLL	VEJ
DTSS	7012	COMPWSS	MSM	PFM	REC	QLOAD						
ESTS	515	COMDDSP EXU REC IAJ 6DP	COMPDTS FDL SFM ICD ITS	COMPFAT IMS SFP ICJ XSP	COMPSCA LFM SLL ICK ILS	COMPSDN MSM STL IDS IMR	COMPSSE PFM VEJ LIO CPD	COMPUSS PFU OAV LIS DDF	CIO PPR OBF LIS THG	CPM QAC ODF IRI	DIS QAP ORP ITA	DSP QFM OVJ ITO
TRTS	7777	COMPCRA ITA	COMPSCA IMR	COMPSEI DDF	COMPSNT	COMPSRA	CIO	PFM	REC	SLL	IDS	IRO

JOB ORIGIN TYPES, QUEUE TYPES, AND PRIORITIES.

SYMBOL	VALUE	DECK REFERENCES.										
SYOT	0	COMPCUA QFM 1MT PROFILE QIS	COMPUSS REC 1SI QDUMP Q26	CPM SET 1SJ QFSP ILC	CVL STL 1SP QMOVE	DSD OBP ACCFAM QREC	DSP 1AJ CONTROL RESEX	IMS 1CJ CPUMTR ROUTE	LFM 1DS FNTLIST 1TP	PFM 110 ISF 1LS	QAC 1IS MAGNET MREC	QAP 1MA MODVAL CPD
BCOT	1	COMPUSS 1AJ SUBMIT	CIO 1CD TAF	DSD 1CJ	DSP 110	LFM CONTROL	OUT FNTLIST	QAC LDI	QAP QDUMP	QFM QLOAD	VEJ QMOVE	OBP ROUTE
EIOT	2	COMCVFE CONTROL E200CP	COMPUSS FNTLIST	DSD QDUMP	DSP QLOAD	LFM QMOVE	QAC QREC	QFM ROUTE	VEJ SUBMIT	OBP TAF	1AJ XSP	1CJ 1LS
TXOT	3	COMPCMX OBP CONTROL TRMDEF	COMPUSS OBP CPMEM IAFEX	CIO 1AJ CPUMTR TELEX	CPM 1DS L072 DSDI	DSD 1RI MODVAL XEDIT	LFM 1RO PFILES	OUT 1SP QLOAD	QFM 1TA QMOVE	REC CATALOG QREC	RPV CATLIST RESEX	TLX CHKPT SUBMIT
MTOT	4	COMPCMX	OBP	1AJ	1RO	1TA	IAFEX	TELEX				
MXOT	5	COMPCMX 1SP	CPM DSDI	DSD COMSCPD	DSP CPD	MTR QIS	QFM ACPD	SFM	OBP	1AJ	1CJ	1SJ
TROT	6	TAF										
INOT	0	DSP	QFM	OVJ	1DS	1RI	1SJ	1SP	1TA	QMOVE	QREC	DSDI
ROQT	1	CPM	1MA	1RI	1SJ	1SP	1TA	DSDI				
OTQT	2	CIO DSDI	DSP 1LS	LFM	OUT	QAC	QAP	REC	1CJ	1SP	QMOVE	QREC
MXQT	3	DSD	1SP									
MNPS	100	CPM	DSD	MTR	SET	1RI	1SJ	1SP	QMOVE	QREC	CPD	
MXPS	7760	COMPCMA SET 1SP SYSEDIT LOADBC	CPM STL BLANK SMP	DIS VEJ CPUMTR SCRSIM	DSD OVJ INSTALL STIMULA	DSP 1AJ ISF MREC	MTR 1CK LDI COMSCPD	026 1DS MODVAL CPD	PFM 1IS PFS DDF	PPR 1MA PROFILE QIS	QAC 1RI OFSP Q26	REC 1SJ RESEX ACPD

CROSS REFERENCE ERROR FLAGS.	OF OPL. VALUE	OPL FILE-OPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	22			
ARET	1	RPV 1AJ CONTROL	CPUMTR							
PSET	2	RPV 1AJ CONTROL	CPUMTR							
PPET	3	CALLINT ITD FDL 026	PFU RPV 1AJ	IMT	IRI CONTROL	CPUMTR	1TN			
CPET	4	RPV 1AJ CONTROL	CPUMTR							
PCET	5	RPV SFP 1AJ	CONTROL	CPUMTR						
TLET	6	RPV 1AJ 1RI	CONTROL	CPUMTR	TAF					
FLET	7	DSP LFM PFM	QFM RPV SFM	1AJ	CONTROL					
TKET	10	PFM RPV 1AJ	CONTROL							
SRET	11	RPV 1AJ 1RI	CONTROL	CPUMTR						
FSET	12	DIS RPV 1AJ	1MA 1RI	CONTROL	CPUMTR	QIS				
ODET	13	COMDDSP MAGNET CIO IAFEX	DSD TELEX	QAC COMKNAM	RDM COMKNWC	RPV 1AJ 1MR MREC	1CK COMPBKP	1MT ABP	1RI QIS	CONTROL 026
SPET	14	CIO 1AJ	1MT	1MR						
RRET	14	COMDDSP RPV	1AJ	1DS	CONTROL					
OKET	15	COMDDSP DSD	RPV 1AJ	CONTROL						
SSET	16	RPV 1AJ 1RI	CONTROL	COMKNAM	COMKNWC					
ECET	17	MTR RPV 1AJ								
PEET	20	MTR RPV 1AJ	1CJ	1CK	1MB	1RO	CONTROL	CPUMTR		
SYET	21	CPM DSP PPR	QFM RPV 1AJ	1CK	1MA	1RI	1TA	CONTROL		
ORET	22	COMPSDI ORP 1AJ	COMPSFI 1AJ DSD 1CJ	PPR 1MA	QFM 1RI	RDM CONTROL	RPV SFM	0AU	0AV	ORF
MXET	23	RPV 1AJ								
TIET	40	RPV 1RI	PFCAT	PFDUMP	PFLoad					



CROSS REFERENCE OF OPL. MISCELLANEOUS. SYMBOL	VALUE	OPL FILE=OPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	23
CHMC	0	COMSDSL					
ECSY MLSF	0 0	PPCOM COMPWEI ORF	REC COMPWSS ORP	SET CIO 1AJ	IMS 1CJ	MSM 1CK	PFM 1IS PPR 1TA OAC 6DI SFM 1MR OAU DDF OAV
CPNS	1	PPCOM	COMSDSL	REC	SET		
NOPE SVJT	3 3	CVL COMPCMX	CPM	DSD	SET	1RI	1SJ 1SP 1TA IAFEX TELEX DSDI
NSJC PFCT	5 5	CHARGE CIO	DSD	PFM	DSDI		
MXJC	6	CPM	DSD	SET	1RI	1SP	
CHDS	10	COMSDSL CHD	CALLOIS DDF	DIS EYE	MTR QIS	026	IDL ADC BAT DOG DSI WRM
FECT	14	DSP	LFM	OBF	1AJ	1RI	1TA
FNCT	15	DSD	LFM	PFU	OAC	SLL	1AJ 1DS 1SP 1TA 1LS
CHSC	16	COMSDSL	MTR	SLL	1AJ	1MB	HFM CPD
NMSD	40	COMSOFS MSI CPD	MSM PFCAT ACPD	MTR PFDUMP MAC2	REC PFLOAD	SET QFSP	SLL QREC 1IS RESEX 1SJ SYSEDT CONFIG DSDI CPUMTR MREC DTERM COMSCPD
TTEQ	75	LFM	SET	OBF	1RO	1TA	COMIES COMITES
TEEQ	76	LFM	SET	TMG			
NEEQ	77	REC	SET	STL	1IS		
MPRS	100	DSD	SET	1SJ			
DLYA	112	MSM	PPR	1CD	1DS	1MT	TMG
CPAS	200	DIO	DSD	MSM	REC	SET	SLL CPUMTR DSDI
EEMC	7007	DIS	STL	1AJ	1SJ	1TA	CONTROL CPUMTR
MCMX	10000	CPM	DIS	026	1AJ	1MA	1RI 1RO 1SP ACCFAM CPUMTR
WCSF	300000	COMPWSS 1CK	COMPWVE 1DS	CIO 1RO	IMS 1TA	MSM 1TO	PFM PFU PPR SFM SLL 1CJ

CROSS REFERENCE OF DPL. COMMON DECK CALLS. DECK	OPL FILE=OPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	24
CMD211D	CALLQIS QIS Q26					
CMT211D	CALLQIS QIS Q26					
COMABZF	BZFILL ZSETFET ASDEF	ASLABEL	ASMOVE	EXINIT		
COMACHN	CATACC					
COMACMD	ASINIT CATACC MAPACC	ASLABEL	ASUSE	ASVAL	EXINIT	
COMACHS	CATACC MAPACC ASDEF	ASLABEL	ASUSE	ASVAL		
COMACPR	ASLABEL ASMOVE ASVAL	EXINIT				
COMADRW	ASLABEL					
COMAFET	CATACC MAPACC ZSETFET	ASMOVE	EXINIT			
COMAKDA	**NONE**					
COMAKDD	**NONE**					
COMALBL	ASLABEL					
COMALRQ	**NONE**					
COMAMAP	MAPACC ASLABEL ASUSE	ASVAL				
COMAMAT	EXINIT					
COMAMCT	CATACC MAPACC ASLABEL	ASUSE	ASVAL	EXINIT		
COMAMSS	ASINIT BZFILL ASVAL EXINIT	CATACC MAPACC	RFORM	ZFILL	ZSETFET	ASDEF ASLABEL ASMOVE ASUSE
COMAOVL	**NONE**					
COMAPFP	CATACC ASDEF ASLABEL	ASMOVE	ASUSE	ASVAL	EXINIT	
COMASNS	ASLABEL					
COMASPC	**NONE**					
COMATDM	ASMOVE EXINIT					
COMAUCR	ASLABEL ASMOVE ASVAL	EXINIT				
COMAUDT	EXINIT					
COMBACH	DBFORM TAF	BDMI				
COMBACT	DBFORM TAF	BDMI				
COMBBCT	DBFORM TAF	BDMI				
COMBDBH	TAF	BDMI				

COMBELP	DBFORM	TAF	BDMI								
COMBINT	TAF	BDMI									
COMBSCT	DBFORM	TAF	BDMI								
COMCARG	CATALOG MODVAL TDUMP MST	CATLIST MSI VALNET STIMULA	CONVERT OPLEDIT VERIFY UPMOD	DOCUMENT PFATC IAFEX DFSORT	ENQUIRE PFCAT DATADEF XEDIT	FCOPY PFILES DATAMAP CKMS	ISF PFLOAD DBFORM MODLIST	KRONREF PFS LIBTASK RUNCPD	LIBGEN PURGALL TAF ACPD	L072 RESTART DEMUX LOADBC	MODIFY SYSEDIT DSDI
COMCARM	CONTROL	COPYB	DAYFILE	EDIT	PROFILE	TRMDEF	ASARG				
COMCCCE	PFATC	PFCOPY	PFDUMP	PFLDUMP							
COMCCDD	CATALOG FCOPY PFCOPY RESEX KTSOMP MODLIST	CATLIST FNTLIST PFDUMP RESTART LIBTASK MAC1	CHKPT KRONREF PFLDUMP SYSEDIT TAF	CONTROL LISTLB PFS TDUMP BDMI	CONVERT MAGNET PROFILE VALNET TERMDEF	COPYB MFILES QDUMP VERIFY DEMUX	COPYC MODIFY QFSP IAFEX OSDI	DAYFILE MODVAL QLOAD TELEX LPT	DFTERM OPLEDIT QMOVE DATADEF STIMULA	EDIT PFATC QREC DATAMAP MREC	ENQUIRE PFCAT RESEQ DBFORM XEDIT
COMCCDM	**NONE**										
COMCCDP	DEBUG										
COMCCFD	ENQUIRE	MAGNET	PROFILE	DATADEF	TAF	DEMUX	MST	STIMULA	CIOTEST	MAC1	
COMCCHD	IAFEX										
COMCCIO	BLANK COPY76 GTR MAGNET PFCOPY RESEQ VFYLIB OSDI CIOTEST LOADBC	CATALOG CPMEM HELP MFILES PFDUMP RESEX IAFEX LPT DDFILE	CATLIST CPUMLD INSTALL MODIFY PFILES RESTART TELEX MST LISTER	CHARGE DAYFILE ISF MODVAL PFLDUMP SFS DATADEF SCRSIM MODLIST	CHKPT DFTERM KRONREF MSI PROFILE SORT DATAMAP STIMULA QAQAQHT	CONFIG DOCUMENT LDI MSORT PURGALL SUBMIT DBFORM UPMOD QAQAQI	CONTROL EDIT LIBEDIT NOTE QDUMP SYSEDIT KTSOMP DEBUG QAQAQNM	CONVERT ENQUIRE LIBGEN OPLEDIT QFSP TDUMP LIBTASK E200CP QAQAQS	COPYB FCOPY LISTLB PACK QLOAD TRMDEF TAF XEDIT QREWIND	COPYC FILES LIST80 PFATC QMOVE VALNET BDMI BANNER RUNCPD	COPY67 FNTLIST L072 PFCAT QREC VERIFY DEMUX BREAK ACPD
COMCCMD	PSSTEXT PFILES MST	CATLIST PFLDUMP DEBUG	CONTROL QLOAD RUNCPD	DFTERM QMOVE ACPD	FCOPY QREC LOADBC	FILES RESEX MAC2	ISF VALNET	KRONREF IAFEX	MAGNET TELEX	PFCAT TAF	PFDUMP DSDI
COMCCOD	CATALOG MSI QMOVE BDMI MAC1	CATLIST PFATC QREC OSDI	CONFIG PFCAT TDUMP MST	CONTROL PFCOPY VERIFY SCRSIM	CPMEM PFDUMP VFYLIB STIMULA	DFTERM PFLDUMP IAFEX DEBUG	ENQUIRE PFS TELEX MREC	FNTLIST PROFILE DATADEF CKMS	KRONREF QDUMP DBFORM DDFILE	LIBGEN QFSP KTSOMP VFYFL	MODVAL QLOAD TAF LOADBC
COMCCPA	CONTROL	COPYB	DAYFILE	EDIT							
COMCCPM	ACCFAM INSTALL	BLANK ISF	CATLIST KRONREF	CHARGE LDI	CHKPT LISTLB	CONFIG MAGNET	CONTROL MODIFY	CPMEM MODVAL	DAYFILE MSI	DFTERM MSORT	ENQUIRE PFATC

COMMON DECK CALLS.  
DECK

DECK REFERENCES.

	PFCAT	PFCOPY	PFDUMP	PFILES	PFLDAD	PFS	PROFILE	QDUMP	QFSP	QLOAD	QMOVE
	QREC	RESEX	RESTART	SFS	SORT	VALNET	CPUREL	IAFEX	TELEX	DBFORM	KTSDMP
	LIBTASK	TAF	DEMUX	SDSI	MST	SCRSIM	STIMULA	DEBUG	MREC	XEDIT	BREAK
	CIOTEST										
COMCCPT	CATALOG	LIBEDIT	SYSEDT	VFYLIB							
COMCCVI	ACCFAM	MODVAL									
COMCCVL	CPHEM	SYSEDT									
COMCDXB	CATALOG	CATLIST	CHKPT	CONFIG	CONTROL	CONVERT	COPYB	COPYC	CPHEM	DAYFILE	DOCMET
	FILES	INSTALL	LDI	LISTLB	LO72	MODIFY	MODVAL	MSI	PFATC	PFCAT	PFDUMP
	PFILES	PFLDAD	PFS	PROFILE	PURGALL	QFSP	RESEQ	RESEX	RESTART	ROUTE	SORT
	SYSEDT	TDUMP	TRMDEF	VALNET	VERIFY	IAFEX	TELEX	DATADDEF	DBFORM	LIBTASK	TAF
	DEMUX	SDSI	MST	SCRSIM	STIMULA	DEBUG	MREC	XEDIT	CKMS	MODLIST	RUNCPD
	ACPD	LOADBC	MAC1								
COMCECH	ECSTEXT	CPUREL	TAF								
COMCECS	CPUREL	TAF									
COMCEDT	CATLIST	DFTERM	FNTLIST	MODVAL	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD	PFS	PROFILE
	QDUMP	QFSP	QLOAD	QMOVE	QREC	RESTART	MAC1				
COMCFCE	CATLIST	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD					
COMCFQD	QDUMP	QLOAD	QMOVE	QREC							
COMCHXB	TRMDEF	IAFEX									
COMCIQP	QDUMP	QLOAD	QMOVE	QREC							
COMCLFM	BLANK	CATALOG	CATLIST	CHKPT	CONFIG	CONTROL	COPYB	CPHEM	DFTERM	EDIT	ENQUIRE
	FILES	FNTLIST	GTR	HELP	ISF	KRONREF	LDI	LISTLB	MAGNET	MFILES	MODVAL
	PACK	PFATC	PFCAT	PFCOPY	PFDUMP	PFILES	PFLDAD	PROFILE	QDUMP	QLOAD	QMOVE
	QREC	RESEQ	RESEX	RESTART	SORT	SUBMIT	SYSEDT	TDUMP	VERIFY	CPUREL	IAFEX
	TELEX	DBFORM	LIBTASK	TAF	BDM1	SDSI	MST	XEDIT	BREAK	CIOTEST	DDFILE
	LOADBC										
COMCLOD	IAFEX	TELEX									
COMCMAC	PSSTEXT	ACCFAM	BLANK	CATALOG	CATLIST	CHARGE	CHKPT	CONFIG	CONTROL	CONVERT	COPYB
	COPYC	CPHEM	CPUMLD	CVLCP	DAYFILE	DFTERM	DOCMET	EDIT	ENQUIRE	FCOPY	FILES
	FNTLIST	HELP	INSTALL	ISF	KRONREF	LDI	LIBEDIT	LIBGEN	LISTLB	LISTBO	LO72
	MAGNET	MFILES	MODIFY	MODVAL	MSI	NOTE	QPLEDT	PACK	PFATC	PFCAT	PFCOPY
	PFDUMP	PFILES	PFLDAD	PFS	PROFILE	PURGALL	QDUMP	QFSP	QLOAD	QMOVE	QREC
	RESEQ	RESEX	RESTART	SFS	SORT	SUBMIT	SYSEDT	TCOMND	TDUMP	TRMDEF	VALNET
	VERIFY	VFYLIB	IAFEX	TELEX	CALLKTS	DATADDEF	DATAMAP	DBFORM	KTSDMP	LIBTASK	TAF
	AAMI	AAMI	BDMI	BEGIN	BLDABH	CALLTSK	CHKON	DMSTAT	DSDUMP	EXTRACT	LOGIN
	MULTCB	SETCHT	STATCHK	SUBMT	TARO	TERMDEF	ITASK	HSABT	OFFTASK	SYSHSG	DEMUX
	SDSI	MST	SCRSIM	STIMULA	UPMOD	DFSORT	PSAMP	DEBUG	E2OCP	MREC	XEDIT
	BANNER	BREAK	CIOTEST	CKMS	DDFILE	MODLIST	RUNCPD	ACPD	LOADBC	ASARG	MAC1
	MAC2										
COMCHTM	LIBGEN	MODVAL	PROFILE	SFS	SYSEDT	VALNET	DATADDEF	DATAMAP	DBFORM	LIBTASK	SDSI

	STIMULA										
COMCMTF	LIBGEN STIMULA	MODVAL	PROFILE	SFS	SYSEDIT	VALNET	DATADEF	DATAMAP	DBFORM	LIBTASK	DSDI
COMCMVE	BLANK LIBGEN PFLOAD VALNET MST	CHARGE LISTLB PFS IAFEX SCRSIM	CHKPT LIST80 PROFILE TELEX STIMULA	CONFIG LO72 QDUMP DATADEF XEDIT	CONTROL MODIFY QFSP DATAMAP BREAK	CONVERT MODVAL QLOAD DBFORM ACPD	DAYFILE MSI QMOVE LIBTASK LOADBC	DFTERM PFATC QREC TAF	DOCMEN PFCAT RESEX BDMI	ENQUIRE PFCOPY SFS DSDI	FNTLIST PFDUMP SYSEDIT LPT
COMCOPE	CIOTEST	QAQAQI									
COMCOVL	KRONREF XEDIT	LDC	LIBEDIT	MODVAL	PFS	PROFILE	QFSP	CPUREL	IAFEX	TELEX	TAF
COMCPFH	CATLIST PFDUMP DBFORM	CHARGE PFILES KTSOMP	CONTROL PFLOAD LIBTASK	DFTERM PROFILE TAF	EDIT PURGALL BDMI	ENQUIRE RESEX STIMULA	HELP RESTART XEDIT	ISF SUBMIT	MAGNET CPUREL	MODVAL IAFEX	PFCAT TELEX
COMCPFU	MSI	PFCAT	PFCOPY	PFDUMP	PFLOAD	MAC2					
COMCPOP	BLANK	CHARGE	CONTROL	COPYB	DAYFILE	EDIT	LISTLB	PROFILE	RESEX	TRMDEF	ASARG
COMCQFM	ISF	LDI	MSI	QDUMP	QLOAD	QMOVE	QREC	SUBMIT	TAF		
COMCRDC	CHARGE MODIFY SCRSIM	CONTROL MODVAL STIMULA	COPYB OPLEDIT DEBUG	DAYFILE QFSP E200CP	DFTERM RESEQ XEDIT	DOCMEN RESTART MODLIST	EDIT SORT	FCOPY DBFORM	HELP TAF	KRONREF DEMUX	LO72 DSDI
COMCRDH	CONVERT	DOCMEN	LIBEDIT	LO72	LISTER						
COMCRDO	CHKPT DBFORM	DOCMEN DEMUX	MODVAL DSDI	PFDUMP STIMULA	QLOAD UPMOD	RESTART CIOTEST	TDUMP MAC2	IAFEX	TELEX	DATADEF	DATAMAP
COMCRDS	CONTROL SFS LISTER	COPYC SUBMIT	CPMEM SYSEDIT	DOCMEN VALNET	EDIT IAFEX	LIST80 TELEX	LO72 DATADEF	MODIFY DBFORM	MODVAL LIBTASK	OPLEDIT TAF	RESEQ DSDI
COMCRDW	BLANK CPMEM LIBEDIT PFDUMP RESTART DATAMAP UPMOD	CATALOG DAYFILE LIBGEN PFLOAD SFS DBFORM DEBUG	CATLIST DFTERM LIST80 PROFILE SORT KTSOMP E200CP	CHARGE DOCMEN LO72 PURGALL SUBMIT LIBTASK CIOTEST	CHKPT EDIT MODIFY QDUMP SYSEDIT TAF LISTER	CONTROL FCOPY MODVAL QFSP VALNET BDMI MODLIST	CONVERT GTR OPLEDIT QLOAD VERIFY DEMUX ACPD	COPYB HELP PACK QMOVE VFYLIB DSDI MAC2	COPYC ISF PFATC QREC IAFEX MST	COPY67 KRONREF PFCAT RESEQ TELEX SCRSIM	COPY76 LDI PFCOPY RESEX DATADEF STIMULA
COMCRSP	ACCFAM	MODVAL	PFILES								
COMCRTN	VALNET	TELEX	TAF								
COMCSCB	CATLIST	PFATC	PFCAT	PFCOPY	PFDUMP	PFLOAD					
COMCSFM	DAYFILE	DFTERM	HELP	ISF	PFDUMP	RESTART	SUBMIT	STIMULA	CIOTEST	MAC2	
COMCSFN	BLANK	CATALOG	CATLIST	CHARGE	CHKPT	CONTROL	COPYB	CPMEM	DAYFILE	DFTERM	DOCMEN

COMMON DECK CALLS.  
DECK

DECK REFERENCES.

	EDIT	ENQUIRE	FNTLIST	HELP	ISF	KRONREF	LIBEDIT	LISTLB	L072	MODIFY	MODVAL
	MSI	OPLEDIT	PFATC	PFCAT	PF COPY	PFDUMP	PFL0AD	PROF ILE	QDUMP	QFSP	QLOAD
	QMOVE	QREC	RESEX	RESTART	SFS	SYSEDIT	TDUMP	VERIFY	VFYLIB	IAFEX	TELEX
	DATAMAP	DATAMAP	DBFORM	KTSDMP	LIBTASK	TAF	BDMI	DSOI	STIMULA	PSAMP	BANNER
	MODLIST	ACPD	MAC1								
COMCSNM	COPYB	COPYC	MODVAL	VERIFY	DBFORM	TAF	SYMSG	LOADBC			
COMCSRT	CATALOG	COPYB	GTR	LIBEDIT	LIBGEN	MODIFY	SYSEDIT	VERIFY	VFYLIB		
COMCSSN	CONTROL	SUBMIT									
COMCSST	CATLIST	MSORT	SORT	SYSEDIT	LIBTASK						
COMCSTF	CATALOG	CATLIST	CHARGE	CPMEM	DAYFILE	EDIT	ENQUIRE	HELP	MODVAL	PACK	PFILES
	PROFILE	RESEQ	TDUMP	KTSDMP	DSOI						
COMCSYS	ACCFAM	BLANK	CATALOG	CATLIST	CHARGE	CHKPT	CONFIG	CONTROL	CONVERT	COPYB	COPYC
	COPY67	COPY76	CPMEM	CPUMLD	CVLCP	DAYFILE	DFTERM	DOCMEN	EDIT	ENQUIRE	FCOPY
	FILES	FNTLIST	GTR	HELP	INSTALL	ISF	KRONREF	LDC	LDI	LIBEDIT	LIBGEN
	LISTLB	LIST80	L072	MAGNET	MFILES	MODIFY	MODVAL	MSI	MSORT	NOTE	OPLEDIT
	PACK	PFATC	PFCAT	PFCOPY	PFDUMP	PFILES	PFL0AD	PFS	PROFILE	PURGALL	QDUMP
	QFSP	QLOAD	QMOVE	QREC	RESEQ	RESEX	RESTART	ROUTE	SETCORE	SFS	SORT
	SUBMIT	SYSEDIT	TCOMND	TDUMP	TRMDEF	VALNET	VERIFY	VFYLIB	IAFEX	TELEX	DATAMAP
	DATAMAP	DBFORM	KTSDMP	LIBTASK	TAF	BDMI	DEMUX	DSOI	LPT	MST	SCR SIM
	STIMULA	UPMOD	DFSORT	DEBUG	E200CP	MREC	XEDIT	BANNER	BREAK	CIOTEST	CKMS
	DDFILE	LISTER	MEMCALL	MODLIST	QAQAQHT	QAQAQI	QAQAQNM	QAQAQS	QREWIND	RUNCPD	VFYFL
	LOADBC	MAC2									
COMCUPC	L072	MSI	PFS	LIBTASK	TAF	STIMULA	DEBUG	MREC			
COMCUSB	BLANK	CHARGE	CONFIG	CONTROL	COPYB	DAYFILE	EDIT	ENQUIRE	LIBEDIT	LISTLB	MODIFY
	MODVAL	NOTE	OPLEDIT	PROFILE	QFSP	RESEX	SFS	SYSEDIT	TRMDEF	LIBTASK	DSOI
	BREAK	ASARG									
COMCVFE	QDUMP	QLOAD	QMOVE	QREC							
COMCWOD	CPMEM	MODVAL	KTSDMP	BDMI	MST	DEBUG	DDFILE	VFYFL	MAC1		
COMCWTC	CATALOG	CATLIST	CHARGE	CONFIG	COPYB	DAYFILE	DFTERM	DOCMEN	EDIT	ENQUIRE	FCOPY
	HELP	KRONREF	L072	MODIFY	MODVAL	OPLEDIT	PFATC	PFCAT	PFCOPY	PFDUMP	PFL0AD
	QDUMP	QMOVE	RESEQ	SORT	SYSEDIT	TDUMP	VALNET	VERIFY	VFYLIB	DATAMAP	DATAMAP
	DBFORM	KTSDMP	LIBTASK	BDMI	DEMUX	DSOI	LPT	DEBUG	XEDIT	CIOTEST	DDFILE
	MODLIST										
COMCWTH	CATLIST	CONVERT	COPYB	LIBEDIT	MODVAL	PFATC	PFCAT	PFCOPY	PFDUMP	PFL0AD	PROF ILE
	E200CP	LISTER									
COMCWTO	CHKPT	DOCMEN	FNTLIST	RESTART	DBFORM	TAF	BDMI	DEMUX	DSOI	UPMOD	XEDIT
	CIOTEST	DDFILE									
COMCWTS	CONTROL	CONVERT	COPYC	DOCMEN	EDIT	ENQUIRE	FNTLIST	LIBEDIT	LIST80	L072	MODIFY
	MODVAL	NOTE	OPLEDIT	PROFILE	RESEQ	SUBMIT	SYSEDIT	TDUMP	VALNET	VERIFY	DATAMAP
	DBFORM	LIBTASK	DEMUX	DSOI	BANNER	LISTER					
COMCWTH	CATALOG	CATLIST	CHARGE	CHKPT	CONFIG	CONTROL	CONVERT	COPYB	COPYC	COPY67	COPY76







CROSS REFERENCE OF OPL.  
COMMON DECK CALLS.  
DECK

OPL FILE-OPL  
DECK REFERENCES.

SYS. TEXT=NO\$TEXT

NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 31

COMPACS	CIO ILS	FDL	IMS	LFM	MSM	PFM	PFU	QAP	IAJ	IDS	ITA
COMPANS	CIO	FDL	PFU								
COMPBKP	**NONE**										
COMPCDI	SFM										
COMPCEA	IMS	SFM	IMR								
COMPCFP	VMO										
COMPCHI	CALLINT ITD	QAP DSI	ICD ITS	IDL CHD	IIO IED	IMT CALLQIS	6DE EYE	6DI QIS	6DP Q26	6MD TMG	ITN
COMPCHL	OSB	6DI	6DP								
COMPCHM	DIO	SET	STL	ILC							
COMPCLB	QAP	QFM	OBP								
COMPCKP	CIO	QFM	IMR								
COMPCLD	FDL	SFP	SLL	IAJ	IDS	IMT	ITA				
COMPCLX	EXU	IAJ									
COMPCHA	MSM	SET									
COMPCHX	CPM	OVJ	IAJ	IIO	ISJ	ITA	ITN	ITD	ITP	ITS	ILS
COMPJOB	QAP	QFM									
COMPORA	CIO IMT	CPM ILS	FDL DDF	LFM	PFM	PFU	QAC	OAV	ORF	IIO	IIS
COMPORS	CIO SFM	CPM TLX	CVL VEJ	DSP HFM	FDL SMP	LFM CPD	PFM	PFU	QFM	RDM	RPV
COMPCTI	CIO	FDL	IMS	PFM	PFU	QFM	SFM	SFP	ICK	CPD	
COMPCHA	CPM IAJ DDF	CVL IIS EYE	DIS ADC VMO	DSP BAT	O26 DOG	PFM DSI	PFU HFM	QFM SMP	SFM WRM	SLL CHD	VEJ CPD
COMPCHN	DSP	LFM									
COMPCHT	PFU										
COMPCHI	CPM ISJ	DSP ITA	LFM ITN	QAC ITD	QFM ITP	SFM ITS	OBF XSP	OVJ ILS	IAJ	IIO	IRU
COMPCHD	CIO OAP	DIO QFM	DSD RDM	DSP REC	IMS STL	LFM ORP	MSM IAJ	OUT ICJ	PFM ICK	PFU IDS	QAC IIO

COMMON DECK CALLS.  
DECK

DECK REFERENCES.

	1MA	1MB	1MT	1RI	1SP	1TA	5ME	6DI	1TN	1TD	1ED
	ILS	1MR	DDF	TMG							
COMPDT5	IMS	PFM	QFM	SFM							
COMPDV5	DIO	OBP	1DS								
COMPECX	CPM	OVJ	1AJ	1SJ	1TA						
COMPFAT	CPM	PFM	SFM	OAV							
COMPGBN	DSP	QFM	SFM	OVJ							
COMPGJN	1TA										
COMPGTN	CPM	RPV	TLX	1AJ	1RI	1RO	1TA				
COMPIFR	IMS	MSM	RDM	REC	1CK	OMF					
COMPIRA	CIO	FDL	MSM	PFM	PFU	REC	1IS	CPD			
COMPLDA	DIO										
COMPMAC	CALLOIS	CALLINT	CIO	CPM	CVL	DIO	DIS	DSD	DSP	ELM	EXU
	FDL	IMS	LFM	MSM	MTR	OSB	OUT	O26	PFM	PFU	PPR
	QAC	QAP	QFM	RDM	REC	RPV	SET	SFM	SFP	SLL	STL
	TLX	VEJ	OAU	OAV	OBF	OBP	ODF	OFA	ORF	ORP	OVJ
	1AJ	1CD	1CJ	1CK	1DL	1DS	1IO	1IS	1MA	1MB	1MC
	1MT	1RI	1RO	1SI	1SJ	1SP	1TA	1TO	5ME	6DE	6DI
	6DP	6MD	1TN	1TD	1TP	ADC	BAT	DOG	DS1	HFM	SMP
	WRM	1TS	ABC	CHD	XSP	1ED	1LS	OMF	1MR	CALLOIS	ABP
	CPD	DDF	EYE	QIS	Q26	SPD	TMG	VMO	1LC		
COMPMKQ	1TN	1TD	1ED								
COMPMSD	6MD										
COMPRBB	QAP	QFM									
COMPRCB	QAP										
COMPRCS	SFP	1AJ									
COMPRES	DIS	1AJ	1MA								
COMPREL	OAU	OBF	ODF	OFA	ORF	ORP	6DI	OMF			
COMPRJC	CIO	CPM	DSD	DSP	LFM	MSM	OUT	QAC	QAP	QFM	REC
	SET	OVJ	1AJ	1CJ	1DS	1IO	1MA	1RI	1SI	1SJ	1SP
	1TA	1TN	1TD	1TP	1TS	1LS	CPD				
COMPRLI	OAV	OBP	OVJ								
COMPRLS	1AJ	1CJ	1RI	1RO							
COMPRNS	CIO	DSP	EXU	FDL	LFM	PFM	QFM	REC	SFP	OBP	1AJ



CROSS REFERENCE OF OPL. COMMON DECK CALLS. DECK	OPL FILE=OPL DECK REFERENCES.			SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	34			
COMPUSS	CIO	DSP	LFM	OUT	QFM	1CJ					
COMPVFC	DSP	QAC									
COMPVFN	CIO	CPM	DSP	LFM	MSM	PFM	QFM	SFM			
COMPVMS	VMO										
COMPWBB	QAP	QFM	OBP	1CD							
COMPWCB	**NONE**										
COMPWEI	CIO 1CJ	DSP 1CK	LFM 1DS	MSM 1IS	PFM 1RO	PFU 1TA	REC 1TO	SFM XSP	SFP 1MR	SLL CPD	VEJ
COMPWSS	CIO SLL 1MR	DSP VEJ	IMS 1AJ	LFM 1CJ	MSM 1CK	OUT 1DS	PFM 1IS	PFU 1MA	QFM 1RO	REC 1TA	SFM XSP
COMPWVE	IMS	PFU									
COMP3XD	**NONE**										
COMSACC	CALLPPU 0BF 1SF 1TS	CPM OVJ MODVAL XSP	DSP 1AJ PFCAT 1LS	LFM 1IO PFL0AD	MSM 1MA PROFILE	PFM 1RO QREC	QAC 1SI 1TN	QAP 1SJ IAFEX	REC 1TA 1TD	SET ACCFAM TELEX	OAV CPUMTR 1TP
COMSBIO	CALLPPU	DSD	QAP	OBP	1CD	1IO	DSDI				
COMSCIO	CALLPPU	CIO	QAP	1MT	MAGNET						
COMSCPD	CPD	RUNCPD	ACPD								
COMSCPS	CALLPPU OUT SFP 1CJ 6DI RUNCPD	CIO PFM TLX 1CK CPUMTR VMO	CPM PFU VEJ 1DS IAFEX ACPD	DIS PPR OAU 1IS TELEX	DSD QAC OAV 1MA XSP	DSP QAP 0BF 1MB 1LS	ELM QFM ODF 1RI OMF	FDL RDM OFA 1RO 1MR	IMS REC ORP 1SJ CPD	LFM SET 1AJ 1TA DDF	MSM SFM 1CD 6DE QIS
COMSDSL	CALLPPU 1CK	DIO 1IS	DSD MSI	IMS ABC	MSM	OSB	OUT	REC	SET	SLL	STL
COMSESS	CETEXT	CVL	SET	MSI							
COMSEVT	CPM 1TA	DSD CONTROL	IMS RESEX	LFM CPD	MSM MAC2	PFM	PFU	ORP	1DS	1MT	1SP
COMSEXP	DSD	DSDI	XSP	1ED	1LS	E200CP					
COMSI0Q	CALLCPU QLOAD	IMS QMOVE	MSM QREC	QFM SUBMIT	REC TAF	SFM 1MR	DFTERM	LDI	MSI	QDUMP	QFSP
COMSJCE	CPM	OVJ	1AJ	1MA							

COMSJIO	CALLPPU ICD	CIO ICJ	DSP FNTLIST	IMS QDUMP	LFM QFSP	MSM QMOVE	OUT OREC	QAC ROUTE	QAP XSP	QFM ILS	IAJ
COMSJRO	IAJ	IRI	IRO	ITA	ITO						
COMSLOR	BDMI										
COMSLFM	LFM	COPYB	PFLoad	VERIFY							
COMSLSD	DSD	IMS	MSM	PFM	RDM	SET	ICK	ISP	CPUMTR	MSI	
COMSMHF	CALLPPU CPUMTR	IMS PFDUMP	MSM OMF	PFM IMR	QFM MAC2	RDM	REC	SET	SFM	ICK	IDS
COMSMRT	IMR	MREC									
COMSMSC	MTR DSDI	PPR ACPD	REC	SET	SFP	SLL	STL	IAJ	IMT	ITA	TAF
COMSMSI	CALLPPU	IMS	MSI								
COMSMSP	CALLPPU OUT SLL IDS 6DI DDF	CIO PFM VEJ IIO 6DP	CVL PFU OAU IIS 6MD	DIO PPR OAV IMA CONTROL	DSP QAC OBP IMT CPUMTR	EXU OFM ORF IRI MSI	FOL RDM ORP IRO DSDI	IMS REC IAJ ISP MST	LFM SET ICJ ITA XSP	MSM SFM ICK ITO OMF	MTR SFP IDL 6DE IMR
COMSMST	DSD	IMS	MSM	PFM	REC	ICK	IIS				
COMSMTR	MTR	CPUMTR									
COMSMTX	CIO MAGNET	DIS PFLoad	DSD RESEX	LFM VERIFY	REC TAF	SFP DSDI	ORF CPD	IDS TMG	IMT	COPYB	CPUMTR
COMSNCD	ITO	IAFEX	TAF	SEND	TERMDEF						
COMSNET	CALLCPU	VALNET	IAFEX	TELEX	TAF						
COMSPFM	CALLCPU OFA MSI SUBMIT DDF	CALLPPU ORP PFATC IAFEX MAC2	CIO IAJ PFCAT TELEX CATACC	IMS ICK PFCOPY DATADEF MAPACC	MSM ISI PFDUMP DBFORM ASDEF	PFM ITA PFILES KTSMP ASLABEL	PFU CATLIST PFLoad TAF ASMOVE	REC CHARGE PROFILE BDMI ASUSE	SFM DFTERM PURGALL STIMULA ASVAL	OAU ISF RESEX IMR EXINIT	OAV MODVAL RESTART XEDIT
COMSPFS	MSI	PFATC	PFCAT	PFCOPY	PFDUMP	PFLoad	PFS	MREC	MAC2		
COMSPFU	CALLPPU	PFU	MSI	PFATC	PFCAT	PFCOPY	PFDUMP	PFLoad	PFS	MAC2	
COMSPRD	CIO QAP IAJ ISJ MODVAL IAFEX	CPM QFM ICK ISP PFATC ITD	DSD RDM IDS ITA PFCAT TELEX	DSP REC IIO ACCFAM PFCOPY ITP	IMS SET IIS CATLIST PFDUMP LIBTASK	LFM SLL IMA CHARGE PFLoad TAF	MSM TLX IMB CONFIG PFS BEGIN	MTR VEJ IMT CPUMTR QFSP BLDABH	PFM OBP IRI CVLCP RESEX CALLRTN	PFU ORF IRO INSTALL SYSEDIT CHKON	QAC OVJ ISI ISF ITN CHDUMP



COMMON DECK CALLS. DECK	DECK REFERENCES.			
COMTDP6	110			
COMTDP9	110			
COMTNAP	MODVAL			
COMTVDT	1T0	TRMDEF	IAFEX	
COMT6DP	110			
COMT8AD	QAP			
COMT9DP	110			
COMUCTM	ASMOVE	ASVAL		
COMUDEF	ASDEF			
COMUDFP	ASARG	ASDEF		
COMUERR	ASLABEL			
COMUFMT	RFORM			
COMULAB	ASLABEL			
COMULBP	ASARG	ASLABEL		
COMUMOV	ASMOVE			
COMUMVP	ASARG	ASMOVE		
COMUOUT	RFORM	ASLABEL	ASMOVE	ASUSE
COMUSIT	ASMOVE			
COMUUSE	ASUSE			
COMUUSP	ASARG	ASUSE		
COMUULD	ASVAL			
COMUULF	ASVAL			
COMUULM	ASVAL			
COMUULP	ASARG	ASVAL		
COMUULV	ASVAL			
COMUULX	ASVAL			
COMZCBP	EXINIT			
COMZCBT	EXINIT			

CROSS REFERENCE OF OPL. OPL FILE-OPL  
COMMON DECK CALLS.  
DECK DECK REFERENCES.

SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 38

COMZCDD	EXINIT	
COMZCPG	**NONE**	
COMZERB	EXINIT	
COMZITM	EXINIT	
COMZLOC	EXINIT	
COPYRT	DSD	
CPCOM	NOSTEXT	SYSTEXT
OMABZF;	EXINIT	
OMACHN;	EXINIT	
OMACMD;	EXINIT	
OMACHS;	ASDEF	EXINIT
OMAFET;	EXINIT	
OMALRQ;	EXINIT	
OMAMAT;	EXINIT	
OMAMCT;	EXINIT	
OMAMSS;	EXINIT	
OMAPFP;	EXINIT	
OMATDM;	EXINIT	
OMEACH;	EXINIT	
OMEBST;	EXINIT	
OMECTF;	EXINIT	
OMEEXP;	EXINIT	
OMEFCQ;	EXINIT	
OMEHLR;	EXINIT	
OMEINT;	EXINIT	
OMELTC;	EXINIT	
OMEMSC;	EXINIT	
OMSPFH;	EXINIT	



CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 39  
COMMON DECK CALLS.  
DECK DECK REFERENCES.

OMUDFP;	ASDEF	
OMUVLP;	ASVAL	
OMUVLX;	ASVAL	
OMZCBP;	EXINIT	
OMZCBT;	EXINIT	
OMZERB;	EXINIT	
PPCOM	PPTXT	NOSTEXT

DECK	DECK REFERENCES.						
ABC	**NONE**						
ABP	BREAK						
ADC	**NONE**						
BAT	**NONE**						
BCL	STL						
CALLDIS	**NONE**						
CALLINT	**NONE**						
CALLPPU	**NONE**						
CALLQIS	**NONE**						
CHD	**NONE**						
CID	QAP	IAJ	ICD	110	SHP	1LS	Q26
CODING	**NONE**						
CPD	RUNCPO						
CPM	SFP	PFS	TAF				
CVL	**NONE**						
DDF	**NONE**						
DID	**NONE**						
DIS	**NONE**						
DUG	**NONE**						
DSD	**NONE**						
DSP	QAP	QDUMP	QLOAD	QMOVE			
DS1	**NONE**						
EXU	**NONE**						
EYE	**NONE**						
FDL	**NONE**						
HFM	SCRSIM						
IMS	CONFIG	MSI					
LFM	SFP						

DECK	DECK REFERENCES.
MSM	**NONE**
MTR	**NONE**
OSB	**NONE**
OUT	FILES      Q26
Q26	DIS
PFM	**NONE**
PFU	**NONE**
QAC	110      FNTLIST      ILS
QAP	1CD
QFM	**NONE**
QIS	Q26
Q26	QIS
RDM	CONFIG
REC	**NONE**
RPV	**NONE**
SET	**NONE**
SFM	DFTERM
SFP	**NONE**
SLL	SYSEDIT
SMP	**NONE**
SPD	**NONE**
STL	**NONE**
TCS	1AJ
TLX	**NONE**
TMG	**NONE**
VEJ	QLOAD      QMOVE
WRM	**NONE**
XSP	ILS

CROSS REFERENCE OF OPL. PP PACKAGES CALLED. DECK	UPL FILE=OPL DECK REFERENCES.			SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	42			
OAU	CPM	IAJ	ICJ	IRD	ISP	ITA					
OAV	CPM	DSP	LFM	PFM	QAC	QFM	VEJ	OVJ	ITA	XSP	
OBF	CIO	DSP	LFM	PFM	PFU	QAP	QFM	SFM	SLL	STL	VEJ
	ICJ	IDS	IIS	IRO	ITP	XSP					
OBP	QAP	ILS									
OCI	REC	IMR									
ODF	CIO	DSP	LFM	PFM	QAC	QFM	REC	SFM	SLL	VEJ	IAJ
	ICJ	IDS	IMT	IRI	IRO	ITA	ITP	ILS			
OFA	PFU	ODF									
OMF	MSM										
OPI	CVL	IMS	MSM	REC	IIS	DDF					
ORF	PFM	REC	ODF	ICJ	ITA						
ORP	ODF										
OTI	IMS	MSM									
OVJ	DSP	QAP	QFM	VEJ	XSP						
IAJ	DIS	IAJ	IMT	IRI	IRO	ISJ	SMP	ILS	DDF	QIS	
ICD	**NONE**										
ICJ	IAJ										
ICK	DSD	IMB									
IDD	REC	SLL	STL								
IDL	DIS	DSD	ITN	ITD	DOG	ILS	QIS	Q26			
IDS	DSD										
IED	ILS										
IIO	**NONE**										
IIS	**NONE**										
ILC	**NONE**										
ILS	IED										
IMA	**NONE**										
IMB	**NONE**										

CROSS REFERENCE OF OPL.  
PP PACKAGES CALLED.

OPL FILE=OPL

SYS. TEXT=NOSTEXT

NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 43

DECK DECK REFERENCES.

1MC	**NONE**
1MR	**NONE**
1MT	**NONE**
1RI	1AJ 1SJ
1RO	1AJ
1RP	1TN 1TD
1SI	**NONE**
1SJ	**NONE**
1SP	**NONE**
1TA	**NONE**
1TD	1TD
1TN	1TN
1TO	**NONE**
1TP	**NONE**
1TS	**NONE**
2LD	FDL
2MA	1MA
2MB	1MA
2MC	1MC
2MD	1MB
2RP	RPV
2TD	1TD
2TN	1TN
2TO	1TO
3AA	1AJ
3AB	1AJ
3AC	1AJ
3AD	1AJ

CROSS REFERENCE OF OPL.  
PP PACKAGES CALLED.

OPL FILE=OPL

SYS. TEXT=NOSTEXT

NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 44

DECK	DECK REFERENCES.
3AE	1AJ
3AF	1AJ
3AG	1AJ
3AH	1AJ
3BA	QAP
3BB	QAP
3BC	QAP
3BD	QAP
3BE	QAP
3BF	QAP
3CK	1CK
3IA	110
3IB	110
3IC	110
3ID	110
3MA	1MT
3MB	1MT
3ME	1MT
3MF	1MT
3PA	PFM
3PB	PFM
3PC	PFM
3PD	PFM
3PE	PFM
3PF	PFM
3PG	PFM
3PH	PFM
3PI	PFM

CROSS REFERENCE OF OPL.  
PP PACKAGES CALLED.

OPL FILE=OPL

SYS. TEXT=NOSTEXT

NOS 1-9E07T/R4A.

79/10/30. 15.07.22.

PAGE 45

DECK DECK REFERENCES.

3PJ	PFM	
3PK	PFM	
3PL	PFM	
3PM	PFM	
3PN	PFM	
3PO	PFM	
3PP	PFM	
3QR	OAC	
3RF	IRI	
3RG	IRI	
3RH	IRI	
3RI	IRI	
3RP	IRO	
3RQ	IRO	
3SA	ISJ	
3SZ	SFM	
4DA	MSM	REC
4DB	MSM	
4DC	MSM	
4DD	REC	
4DE	REC	
4DF	MSM	
4DG	MSM	
4DH	MSM	
5BA	QAP	
5BB	QAP	
5IA	110	
5IC	110	

PP PACKAGES CALLED.  
DECK DECK REFERENCES.

5ID	110		
5IE	110		
5IG	110		
5IH	110		
5ME	DSD	MSM	ICK
6DE	**NONE**		
6DI	**NONE**		
6DP	**NONE**		
6MD	**NONE**		
7SE	1DL		







70332 BLANK STATEMENTS.

3948 \*CALL STATEMENTS.

437890 LINES OF CODE.

152718 \* TYPE COMMENT STATEMENTS.

34306 TOTAL INACTIVE STATEMENTS.

664888 TOTAL ACTIVE STATEMENTS.

## TABLE OF CONTENTS

1.0 INTRODUCTION . . . . .	2
1.1 SCOPE OF DOCUMENT . . . . .	2
1.1.1 PURPOSE . . . . .	2
1.1.2 SCOPE OF USE . . . . .	2
1.2 CONFORMANCE AND ENFORCEMENT . . . . .	2
2.0 DOCUMENTATION . . . . .	3
2.1 INTRODUCTION . . . . .	3
2.1.1 DESIGN OVERVIEW . . . . .	3
2.1.2 EXTERNAL INTERFACE . . . . .	3
2.1.3 INTERNAL OPERATION . . . . .	4
2.1.4 DETAILED CODE ANALYSIS . . . . .	4
2.2 GENERAL REQUIREMENTS . . . . .	4
2.2.1 ABBREVIATIONS . . . . .	4
2.2.2 PUNCTUATION . . . . .	5
2.2.3 FORMATS . . . . .	5
2.2.4 FORMAT OF ITEMIZED DOCUMENTATION . . . . .	6
2.3 PROGRAM LEVEL DOCUMENTATION . . . . .	6
2.3.1 OVERVIEW . . . . .	7
2.3.2 EXTERNAL . . . . .	7
2.3.3 INTERNAL . . . . .	8
2.4 SUBROUTINE LEVEL DOCUMENTATION . . . . .	8
2.4.1 ENTRY CONDITIONS . . . . .	9
2.4.2 EXIT CONDITIONS . . . . .	9
2.4.3 REGISTER OR DIRECT CELL USAGE . . . . .	10
2.4.4 ROUTINES CALLED . . . . .	10
2.4.5 MACROS CALLED . . . . .	10
2.4.6 ALLOCATED REGISTERS OR DIRECT CELLS . . . . .	11
2.4.7 TIMING CONSIDERATIONS . . . . .	11
2.4.8 NOTES . . . . .	11
2.5 CODE LEVEL DOCUMENTATION . . . . .	11
2.5.1 STAND-ALONE COMMENTS . . . . .	11
2.5.2 EMBEDDED COMMENTS . . . . .	12
2.6 DOCUMENTATION EXAMPLES . . . . .	13
2.6.1 PROGRAM LEVEL . . . . .	13
2.6.2 SUBROUTINE LEVEL (PP CODE) . . . . .	14
2.6.3 SUBROUTINE LEVEL (CP CODE) . . . . .	15
3.0 CODING . . . . .	16
3.1 CARD/LINE LAYOUTS . . . . .	16
3.1.1 COMPASS OPERATION CARDS . . . . .	16
3.1.2 COMPASS COMMENT CARDS . . . . .	16
3.2 PROGRAM LAYOUT . . . . .	16
3.2.1 GROUP 1 INSTRUCTIONS . . . . .	17
3.2.1.1 PERIPHERAL PROCESSOR PROGRAMS . . . . .	17
3.2.1.2 CENTRAL PROCESSOR PROGRAMS . . . . .	17
3.2.1.3 COMMON DECKS . . . . .	17
3.2.2 PROGRAM LEVEL DOCUMENTATION . . . . .	18
3.2.3 MACRO DEFINITIONS . . . . .	18

3.2.4	INSTALLATION SYMBOL DEFINITIONS . . . . .	18
3.2.5	LOCAL SYMBOL DEFINITIONS . . . . .	18
3.2.6	GLOBAL MEMORY DEFINITIONS . . . . .	18
3.2.7	MAIN LOOP . . . . .	18
3.2.8	PRIMARY SUBROUTINES . . . . .	19
3.2.9	SECONDARY SUBROUTINES . . . . .	19
3.2.10	WORKING STORAGE AND BUFFERS . . . . .	19
3.2.11	INITIALIZATION CODE . . . . .	19
3.2.12	PROGRAM TERMINATION . . . . .	19
3.3	INSTRUCTION USE, FORMAT AND PARAMETERS . . . . .	21
3.3.1	REGISTER USE AND SPECIFICATION . . . . .	21
3.3.1.1	B0 REGISTER USE . . . . .	21
3.3.1.2	B1 REGISTER USE . . . . .	21
3.3.1.3	PACK AND NOMINAL SHIFT X REGISTERS . . . . .	21
3.3.1.4	UNPACK AND NORMALIZE X REGISTERS . . . . .	21
3.3.2	MULTIPLE LOGICAL TESTS . . . . .	21
3.3.3	SHIFT INSTRUCTION PARAMETERS . . . . .	22
3.3.4	BOOLEAN MASK USAGE . . . . .	23
3.3.5	RELATIVE ADDRESSING . . . . .	23
3.3.6	JUMP INSTRUCTION USE . . . . .	23
3.3.7	SUBROUTINE ENTRY . . . . .	25
3.3.8	CPU CODE OPTIMIZATION . . . . .	25
3.3.9	CLEARING PPU MEMORY . . . . .	26
3.3.10	INSTRUCTION MODIFICATION . . . . .	26
3.3.11	COMMON DECK REGISTER USAGE . . . . .	27
3.4	DATA USE, FORMAT AND PARAMETERS . . . . .	28
3.4.1	LITERALS . . . . .	28
3.4.2	DATA FORMATS . . . . .	28
3.4.3	TABLE GENERATION . . . . .	28
3.4.4	DIRECT CELL USE . . . . .	29
3.4.5	BUFFER DEFINITIONS . . . . .	29
3.5	DATA/CODE NAMING TERMINOLOGY . . . . .	30
3.5.1	USE OF CONDITION TERMINOLOGY . . . . .	30
3.5.2	TAGS WITHIN SUBROUTINES . . . . .	30
3.5.3	TAGS ON DATA . . . . .	31
3.5.3.1	DIRECT CELLS . . . . .	31
3.5.3.2	CODE CONTROL NAMES . . . . .	31
3.5.3.3	TABLE NAMES . . . . .	31
3.5.3.4	GLOBAL MEMORY LOCATIONS . . . . .	32
3.5.4	CONSTANTS USED AS INSTRUCTIONS . . . . .	32
3.5.5	IF/ELSE/ENDIF SYMBOLS . . . . .	32
3.5.6	NON-LOCAL MACRO SYMBOLS . . . . .	32
3.5.7	LOW CORE LOCATION SYMBOLS . . . . .	33
3.5.8	CONTROL POINT AREA LOCATION SYMBOLS . . . . .	33
3.5.9	MONITOR FUNCTION SYMBOLS . . . . .	33
3.6	PSUEDO INSTRUCTION USE, FORMAT AND PARAMETERS . . . . .	33
3.6.1	BASE AND POST RADIX USE . . . . .	33
3.6.2	EXTERNAL REFERENCES . . . . .	33
3.6.3	SPACE CARD FORMAT . . . . .	34
3.6.4	CONDITIONAL CODE . . . . .	34
3.6.5	MACROS . . . . .	35
3.7	TESTS FOR OVERFLOW . . . . .	35
3.7.1	CM LOADS . . . . .	35
3.7.2	TABLE OVERFLOW . . . . .	35

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

3.7.3 MASS STORAGE LOADS . . . . .	36
3.7.4 OVERLAY LOADS . . . . .	36
3.8 RELOCATABLE CPU CODE . . . . .	36
4.0 MISCELLANEOUS . . . . .	38
4.1 PROGRAM NAMING . . . . .	38
4.1.1 LENGTH OF PROGRAM NAME . . . . .	38
4.1.2 RESERVED NAMES . . . . .	38
4.1.3 COMMON DECK NAMES . . . . .	39
4.2 CODE TRANSMITTAL RULES . . . . .	39
4.2.1 GENERAL RULES . . . . .	40
4.2.2 NOS MODSET FORMAT . . . . .	40
4.2.2.1 MODSET IDENTIFIER . . . . .	40
4.2.2.2 MODSET SEQUENCE NUMBER . . . . .	41
4.2.2.3 MODSET CORRECTION LETTER . . . . .	41
4.2.2.4 OVERFLOW . . . . .	41
4.2.2.5 MODSET EXAMPLE . . . . .	41
4.2.3 NOS/BE CORRECTION SET FORMAT . . . . .	42
4.2.3.1 CORRECTION SET IDENTIFIER . . . . .	42
4.2.3.2 CORRECTION HISTORY . . . . .	42
4.2.3.3 CORRECTION APPLICABILITY . . . . .	42
4.2.3.4 NEW DECKS . . . . .	43
4.2.3.5 SPECIAL UPDATE DIRECTIVES . . . . .	43
4.2.3.6 CORRECTION SET EXAMPLE . . . . .	43
4.3 INTERFACE CONSIDERATIONS . . . . .	43
4.3.1 SYSTEM SUPPLIED INTERFACES . . . . .	43
4.3.2 PARAMETER VALIDATION . . . . .	43
4.3.3 MEMORY ACCESS . . . . .	44
4.3.4 SECURITY . . . . .	44
4.3.5 RESERVATIONS AND INTERLOCKS . . . . .	44
4.3.6 DOCUMENTING HARDWARE DEFICIENCIES . . . . .	44
4.4 MODULARITY . . . . .	45
4.4.1 PPU OVERLAYS . . . . .	45
4.4.2 HELPER PPU-S . . . . .	45
4.4.3 COMMON DECKS . . . . .	45
4.5 DAYFILE MESSAGES . . . . .	45
4.6 UNHANGABLE CHANNEL CODE . . . . .	45
APPENDIX A - ABBREVIATIONS . . . . .	47
A.1 GENERAL ABBREVIATIONS . . . . .	47
A.2 NETWORK HOST PRODUCTS ABBREVIATIONS . . . . .	48
A.3 ACRONYMS . . . . .	48

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

♦-----♦  
I  
I  
I     LOWER CYBER SYSTEMS PROGRAMMING STANDARD  
I  
I  
♦-----♦

## 1.0 INTRODUCTION

### 1.1 SCOPE OF DOCUMENT

#### 1.1.1 PURPOSE

THIS DOCUMENT ESTABLISHES THE STANDARD PROCEDURES TO BE USED BY PROGRAMMERS IN THE DEVELOPMENT AND MAINTENANCE OF PROGRAMS.

THIS DOCUMENT SHOULD BE USED BY PROGRAMMERS AS A REFERENCE MANUAL OF STANDARD PROGRAMMING PROCEDURES. THE IMPLEMENTATION OF THESE PROCEDURES WILL INCREASE THE EFFICIENCY OF PROGRAM DEVELOPMENT, IMPROVE THE RELIABILITY AND MAINTAINABILITY OF THE PROGRAM AND AID IN THE TRAINING OF PERSONS WHO WILL BE MAINTAINING OR USING THE PROGRAM.

#### 1.1.2 SCOPE OF USE

THE PROCEDURES DEFINED IN THIS DOCUMENT ARE APPLICABLE TO THE FOLLOWING OPERATING SYSTEMS AND THEIR RELATED SUBSYSTEMS:

SCOPE 3.4.N  
NOS/BE  
NOS

CODE WHICH IS COMMON TO BOTH OPERATING SYSTEMS WILL USE ASSEMBLY OPTIONS TO SPECIALIZE THE CODE WHERE THERE ARE DIFFERENCES IN THESE PROCEDURES.

### 1.2 CONFORMANCE AND ENFORCEMENT

THE PROCEDURES DEFINED IN THIS DOCUMENT ARE USED IN ALL NEWLY DEVELOPED PROGRAMS. IN EXISTING PROGRAMS THESE PROCEDURES SHOULD BE USED IF THEY ARE NOT INCONSISTENT WITH THE EXISTING PROCEDURES. IF MAJOR CHANGES (SUCH AS A REWRITTEN SUBROUTINE OR A NEW OVERLAY) ARE MADE TO A PROGRAM, THESE PROCEDURES ARE TO BE USED FOR THE CHANGES.

PROGRAMS WHICH DO NOT CONFORM TO THESE REQUIREMENTS WILL BE RETURNED TO THE PROGRAMMER FOR CORRECTION.



## 2.0 DOCUMENTATION

### 2.1 INTRODUCTION

DOCUMENTATION IS THE PRESENTATION OF INFORMATION ABOUT A PROGRAM IN EASILY UNDERSTANDABLE FORM SO THAT THOSE WHO NEED TO UNDERSTAND THE PROGRAM DO NOT NEED TO STUDY THE PROGRAM ITSELF. THIS REDUCES THE TIME CONSUMED FROM DAYS OR WEEKS TO JUST MINUTES OR HOURS.

THE PROGRAM DOCUMENTATION PRESENTED IN THIS STANDARD IS EMBEDDED WITHIN THE SOURCE LANGUAGE OF EACH PROGRAM. THE DOCUMENTATION IS DESIGNED TO BE EXTRACTABLE BY THE STANDARD DOCUMENTATION PROCESSING PROGRAM. THIS APPROACH SERVES TO UNIFY THE PROGRAM AND ITS DOCUMENTATION, MAKING IT EASIER AND MORE NATURAL TO UPDATE THE DOCUMENTATION AS CHANGES ARE MADE TO THE CODE.

THE EFFECTIVENESS OF DOCUMENTATION IS JUDGED BY ITS SUCCESS IN MEETING THE NEEDS OF THOSE WHO USE IT. THIS INTRODUCTION DEFINES FOUR DISTINCT NEEDS FOR DOCUMENTATION WHICH ARISE DURING THE LIFE OF A SOFTWARE PRODUCT. SECTIONS 2.3 THROUGH 2.5 DEFINE THREE LEVELS OF DOCUMENTATION (PROGRAM LEVEL, SUBROUTINE LEVEL AND CODE LEVEL) WHICH TOGETHER MEET THESE NEEDS.

SECTION 2.6 GIVES EXAMPLES OF PROPER DOCUMENTATION.

#### 2.1.1 DESIGN OVERVIEW

ANYONE WANTING TO KNOW THE STRUCTURE OF THE SYSTEM, OR SOME FUNCTIONAL AREA, DOES NOT WANT A LOT OF DETAILED INFORMATION WHICH WILL MAKE THE TASK MORE DIFFICULT. ONE SHOULD BE ABLE TO ASK THE QUESTION:

WHAT IS THE FUNCTION OF THIS PROGRAM.

AND GET AN ANSWER THAT IS BRIEF AND TO THE POINT. IT SHOULD NOT CONTAIN ANY INFORMATION ABOUT THE INPUT PARAMETERS, OPTIONS, ERROR CONDITIONS, OR INTERNAL WORKINGS OF THE PROGRAM.

#### 2.1.2 EXTERNAL INTERFACE

ANYONE WHO KNOWS THE FUNCTION OF A PROGRAM AND WANTS TO KNOW HOW TO INTERFACE TO THE PROGRAM NEEDS TO KNOW THE FORM OF THE CALL, WHAT PARAMETERS TO SUPPLY, WHAT INFORMATION IS RETURNED, AND WHAT IS ACCOMPLISHED. ONE SHOULD BE ABLE TO ASK THE QUESTION:

HOW IS THIS PROGRAM USED.

AND GET AN ANSWER THAT LISTS THE PARAMETER DEFINITIONS, FORMATS,

77/11/21

AND CONTENTS, THE INITIAL CONDITIONS OF BUFFERS AND DEVICES, ANY STATUS AND CONDITION INFORMATION, A LIST OF OTHER PROGRAMS CALLED, AND A COMPLETE LIST OF ERROR CODES, ERROR MESSAGES ISSUED AND PARAMETERS RETURNED. A GENERAL DESCRIPTION OF THE ACTIONS TAKEN SHOULD BE INCLUDED FOR EACH FUNCTION PERFORMED THAT IS RECOGNIZABLE BY THE CALLING PROGRAM.

### 2.1.3 INTERNAL OPERATION

ANYONE WORKING ON A MODIFICATION OR ENHANCEMENT TO THE SYSTEM NEEDS A GENERAL KNOWLEDGE OF THE INTERNAL OPERATION OF A PROGRAM. THIS REQUIRES FINDING OUT WHERE WITHIN THE PROGRAM SOME FUNCTION IS PERFORMED AND HOW IT IS PERFORMED. ONE SHOULD BE ABLE TO ASK THE QUESTION:

HOW DOES THIS PROGRAM WORK.

AND GET AN ANSWER THAT INCLUDES A DESCRIPTION OF THE LOGICAL FLOW AND STRUCTURE OF THE PROGRAM, THE ALGORITHMS USED AND THE FUNCTION PERFORMED BY EACH OVERLAY OR SUBROUTINE IN THE PROGRAM.

### 2.1.4 DETAILED CODE ANALYSIS

ANYONE ATTEMPTING TO MODIFY THE PROGRAM OR ESTABLISH A KNOWLEDGE OF THE DETAILED OPERATION OF A PROGRAM USES THE LISTING. DOCUMENTATION SHOULD BE PROVIDED IN THE LISTING TO AID IN FOLLOWING THE FLOW OF THE PROGRAM WITHOUT READING ALL OF THE CODE. THIS DOCUMENTATION CONSISTS OF COMMENTS WITHIN THE CODE ITSELF. COMMENTS DESCRIBING THE FUNCTION OF LOGICAL GROUPS OF INSTRUCTIONS SHOULD BE PROVIDED, AND COMMENTS DOCUMENTING TABLE STRUCTURES, DATA AREAS, AND CONSTANTS SHOULD APPEAR ON THE INSTRUCTIONS WHICH DEFINE THEM. ONE SHOULD BE ABLE TO ASK THE QUESTION:

WHAT SHOULD I KNOW WHEN MODIFYING THIS PROGRAM.

AND GET BACK AN ANSWER WITH ALL THE DETAIL NEEDED TO MAKE THE MODIFICATIONS WITHOUT ADVERSELY AFFECTING EXISTING PROGRAM FUNCTIONS.

## 2.2 GENERAL REQUIREMENTS

### 2.2.1 ABBREVIATIONS

THE ABBREVIATIONS FOR TECHNICAL TERMS WHICH ARE TO BE USED IN PROGRAM DOCUMENTATION ARE LISTED IN APPENDIX A. ALL OTHER TECHNICAL WORDS AND PHRASES ARE COMPLETELY SPELLED OUT. ROUTINE NAMES AND MNEMONIC NAMES OF TABLES AND EQUIPMENTS ARE NOT CONSIDERED ABBREVIATIONS.

77/11/21

A PROGRAM WHOSE DOCUMENTATION MAKES EXTENSIVE USE OF TERMS NOT IN THIS LIST MAY DEFINE A LIST OF ABBREVIATIONS AND INCLUDE IT IN THE FIRST SECTION OF THE INTERNAL DOCUMENTATION FOR THE PROGRAM. SUCH ABBREVIATIONS MAY NOT BE USED IN THE PROGRAM OVERVIEW OR EXTERNAL DOCUMENTATION.

THE FOLLOWING STANDARD SYMBOLS ARE USED IN THE DOCUMENTATION WHEN EXPRESSING LOGICAL AND ARITHMETIC COMPARISONS:

.NOT.	LOGICAL INVERSE
.XOR.	EXCLUSIVE OR
.AND.	LOGICAL PRODUCT
.OR.	LOGICAL DIFFERENCE
.NE.	NOT EQUAL TO
.LE.	LESS THAN OR EQUAL TO
.GE.	GREATER THAN OR EQUAL TO
.LT.	LESS THAN
.GT.	GREATER THAN
=	EQUAL TO
()	CONTENTS OF

### 2.2.2 PUNCTUATION

ALL DOCUMENTATION AND COMMENT CARDS CONTAIN COMPLETE ENGLISH SENTENCES WITH CORRECT PUNCTUATION. EXCEPTIONS ARE ALLOWED IN SUBROUTINE HEADINGS (SEE SECTION 2.4) AND IN EMBEDDED COMMENTS (SEE SECTION 2.5.2). TITLES (SUCH AS 'ASSEMBLY CONSTANTS.') SHOULD END WITH A PERIOD BUT NEED NOT BE COMPLETE SENTENCES. EACH COMMENT (EXCLUDING EMBEDDED COMMENTS) SHOULD END WITH A PERIOD EVEN IF IT IS NOT A SENTENCE.

CORRECT PUNCTUATION MEANS THE SAME PUNCTUATION AS REQUIRED IN WRITTEN ENGLISH. HOWEVER, THE APOSTROPHE PRESENTS PROBLEMS DUE TO CHARACTER SET AND PRINT TRAIN DIFFERENCES, AND PLURALS OF ABBREVIATIONS ARE NOT READABLE WITHOUT UPPER AND LOWER CASE. THEREFORE, PLURALS AND POSSESSIVE FORMS OF ABBREVIATED TERMS ARE TO BE AVOIDED. AUTHORIZED ABBREVIATIONS (SEE SECTION 2.2.1) ARE MADE PLURAL BY ADDING A HYPHEN AND THE LETTER 'S' (E.G. PPU-S).

IF AN UPPER CASE ITEM IS TO BE INDICATED IN THE DOCUMENTATION, IT IS ENCLOSED WITHIN ASTERISKS. UPPER CASE IS USED FOR NAMES OF FILES, PROGRAMS, CALLING PARAMETERS, SUBROUTINE TAGS, TABLE NAMES AND ANY OTHER WORDS THAT ARE NORMALLY CAPITALIZED.

### 2.2.3 FORMATS

DOCUMENTATION LINES CONTAIN ONLY ASTERISKS AND BLANKS IN THE FIRST TEN COLUMNS AND TEXT IN COLUMNS 11 THROUGH 71. THE TEXT IS WRITTEN USING CORRECT ENGLISH EXCEPT WHERE SPECIFICALLY NOTED. THE FORMAT FOR EACH OF THE VARIOUS TYPES OF DOCUMENTATION IS SHOWN BELOW. LATER SECTIONS DEFINE THE USAGE OF EACH TYPE OF DOCUMENTATION.

77/11/21

OVERVIEW - ASTERISKS IN COLUMNS 1 THROUGH 5 (\*\*\*\*\*). THIS CARD INDICATES THAT THIS AND THE FOLLOWING CONTIGUOUS COMMENT CARDS MAKE UP THE PROGRAM OVERVIEW DOCUMENTATION.

EXTERNAL - ASTERISKS IN COLUMNS 1 THROUGH 3 (\*\*\*). THIS CARD INDICATES THAT THIS AND THE FOLLOWING CONTIGUOUS COMMENT CARDS ARE TO BE INCLUDED IN THE PROGRAM EXTERNAL DOCUMENTATION.

INTERNAL - ASTERISKS IN COLUMNS 1 AND 2 (\*\*). THIS CARD INDICATES THAT THIS AND THE FOLLOWING CONTIGUOUS COMMENT CARDS ARE TO BE INCLUDED IN THE PROGRAM INTERNAL DOCUMENTATION.

INTERNAL BRACKET - ASTERISKS IN COLUMNS 1 THROUGH 4 (\*\*\*\*). THIS CARD AND ALL OTHER CARDS UP TO AND INCLUDING THE NEXT OCCURRENCE OF THIS CARD ARE TO BE INCLUDED IN THE PROGRAM INTERNAL DOCUMENTATION.

OTHER COMMENT - ASTERISK IN COLUMN 1 (\*). THIS TYPE OF COMMENT IS USED FOR CONTINUATION OF THE ABOVE TYPES OF DOCUMENTATION. IT IS ALSO USED FOR STAND-ALONE COMMENTS (SEE SECTION 2.5.1).

TABLE - ASTERISK IN COLUMN 1, T IN COLUMN 2 (\*T). THIS CARD INDICATES TABLE DOCUMENTATION. THE \*T CARDS MUST APPEAR WITHIN A SET OF CONSECUTIVE COMMENT STATEMENTS BEGINNING WITH AN EXTERNAL (\*\*\*) OR INTERNAL (\*\*) STATEMENT.

BLANK COMMENT CARD - A CARD WITH AN ASTERISK IN COLUMN 1 (\*) AND BLANKS IN COLUMNS 2 THROUGH 71 IS CALLED A 'BLANK COMMENT CARD' AND IS USED AS A SEPARATOR TO IMPROVE READABILITY OF DOCUMENTATION.

#### 2.2.4 FORMAT OF ITEMIZED DOCUMENTATION

DOCUMENTATION WHICH CONTAINS SEVERAL SEPARATE ITEMS OF INFORMATION (AS FOUND IN SECTIONS 2.3.1, 2.3.2, 2.3.3 AND 2.4) CONTAINS A BLANK COMMENT CARD BETWEEN THE ITEMS. EACH ITEM ENDS WITH A PERIOD. IF AN ITEM IS NOT APPLICABLE IT IS OMITTED FROM THE DOCUMENTATION. THE ITEMS ARE PLACED IN THE ORDER SPECIFIED AND THE LAST ITEM IS FOLLOWED BY A SPACE 4,10 CARD.

#### 2.3 PROGRAM LEVEL DOCUMENTATION

EVERY PROGRAM CONTAINS COMMENT CARDS WHICH MAKE UP THE PROGRAM LEVEL DOCUMENTATION (AS DEFINED IN THIS SECTION). THIS LEVEL OF DOCUMENTATION MAY BE USED WITH THE PROGRAM LISTING OR WITHOUT IT (USING EXTRACTED DOCUMENTATION PRODUCED BY A DOCUMENTATION PROCESSOR). EVEN WITHOUT THE LISTING, THE PROGRAM LEVEL DOCUMENTATION SATISFIES THE DESIGN OVERVIEW, EXTERNAL INTERFACE

77/11/21

AND INTERNAL OPERATION DOCUMENTATION NEEDS DISCUSSED IN SECTION 2.1.

### 2.3.1 OVERVIEW

THE OVERVIEW DOCUMENTATION IS PLACED IMMEDIATELY FOLLOWING THE COMPASS GROUP 1 INSTRUCTIONS AND BEFORE ANY OTHER DOCUMENTATION, MACRO DEFINITIONS OR EXECUTABLE CODE (SEE SECTION 3.2). IT CONSISTS OF AN OVERVIEW CARD (SEE SECTION 2.2.3) WHICH CONTAINS THE PROGRAM NAME AND A BRIEF DESCRIPTION OF THE PROGRAM, AND ADDITIONAL COMMENT CARDS WHICH CONTAIN THE FOLLOWING ITEMS OF DATA (SEE SECTION 2.6 FOR THE LAYOUT OF THESE ITEMS):

- . NAME OF AUTHOR AND DATE WRITTEN (YY/MM/DD).
- . NAMES OF AUTHORS OF MAJOR MODIFICATIONS, WITH DATES.
- . TEXT OF OVERVIEW OF PROGRAM.

THE TEXT OF THE OVERVIEW SHOULD FOLLOW THE GENERAL DEFINITION OF DESIGN OVERVIEW DOCUMENTATION IN SECTION 2.1. THE OBJECTIVE IS TO DESCRIBE THE FUNCTION OF THE PROGRAM IN GENERAL TERMS.

### 2.3.2 EXTERNAL

THE EXTERNAL DOCUMENTATION IS PLACED IMMEDIATELY FOLLOWING THE OVERVIEW DOCUMENTATION AND BEFORE ANY INTERNAL DOCUMENTATION, MACRO DEFINITIONS OR EXECUTABLE CODE (SEE SECTION 3.2). IT CONSISTS OF AN EXTERNAL DOCUMENTATION CARD (SEE SECTION 2.2.3) AND ADDITIONAL COMMENT CARDS WHICH TOGETHER CONTAIN THE FOLLOWING ITEMS OF DATA (SEE SECTION 2.6 FOR THE LAYOUT OF THESE ITEMS):

- . DETAILED DESCRIPTION OF FUNCTIONS AND OPTIONS.
- . ENTRY CONDITIONS, INCLUDING PARAMETERS AND INITIAL CONDITIONS OF BUFFERS AND EXTERNAL TABLES.
- . FORMAT OF THE CONTROL CARD CALL.
- . EXIT CONDITIONS, INCLUDING STATUS BITS AND FIELDS RETURNED.
- . ERRORS DETECTED, ERROR CODES RETURNED, INCLUDING SUBSEQUENT ACTION TAKEN FOR EACH.
- . SYSTEM ERRORS DETECTED AND SUBSEQUENT ACTION TAKEN.
- . OTHER PROGRAMS CALLED.
- . MESSAGES ISSUED (INCLUDING DAYFILE AND OPERATOR).

THE CONTENT OF THIS SECTION FOLLOWS THE GENERAL DEFINITION OF EXTERNAL INTERFACE DOCUMENTATION IN SECTION 2.1. THE OBJECTIVE IS TO SUPPLY INFORMATION REQUIRED BY A POTENTIAL USER OF THE PROGRAM.

**2.3.3 INTERNAL**

THE INTERNAL DOCUMENTATION DESCRIBES THE INTERNAL WORKINGS OF THE PROGRAM. IT MAY BE DISPERSED THROUGHOUT A PROGRAM AS DESIRED, HOWEVER A MAJOR PORTION APPEARS IMMEDIATELY FOLLOWING THE EXTERNAL DOCUMENTATION. INTERNAL DOCUMENTATION CONSISTS OF AN INTERNAL DOCUMENTATION CARD (SEE SECTION 2.2.3) AND ADDITIONAL COMMENT CARDS WHICH TOGETHER CONTAIN THE FOLLOWING ITEMS OF DATA (SEE SECTION 2.2.4 FOR THE LAYOUT OF THESE ITEMS):

- SYSTEM TEXTS REQUIRED FOR ASSEMBLY (OTHER THAN DEFAULT).
- DIRECT CELL USAGE (PPU PROGRAMS).
- GLOBAL REGISTER ASSIGNMENTS (CPU PROGRAMS).
- DATA AREAS AND TABLE FORMATS.
- MEMORY MAP (IF OVERLAYS ARE USED).

OTHER ITEMS TO BE INCLUDED IF APPLICABLE ARE:

- TECHNIQUES OR ALGORITHMS EMPLOYED WHERE NOT OBVIOUS.
- TIMING CONSIDERATIONS.
- INTERLOCK CONSIDERATIONS.
- KNOWN LIMITATIONS TO PERFORMANCE OR EXTENSIBILITY, SUCH AS TIMING OF LOOPS, CORE SIZE, ERROR-RECOVERY DEFICIENCIES.

ANY OTHER INFORMATION WHICH WOULD AID SOMEONE IN UNDERSTANDING THE INTERNAL WORKINGS OF THE PROGRAM IS ALSO PROVIDED, INCLUDING LOGICAL FLOW, STRUCTURE, AND PITFALLS TO REDESIGN.

**2.4 SUBROUTINE LEVEL DOCUMENTATION**

THE HEADING OF ANY SUBROUTINE CONSISTS OF COMMENT CARDS GIVING A BRIEF DESCRIPTION OF ITS FUNCTION, ITS ENTRY AND EXIT CONDITIONS, REGISTER OR DIRECT CELL USAGE AND INTERNAL WORKINGS. THE INFORMATION CONTAINED SHOULD BE ON A LEVEL INDICATED BY THE COMPLEXITY OF THE SUBROUTINE. THE FOLLOWING ITEMS OF DATA SHOULD BE INCLUDED (SEE SECTIONS 2.6.2 AND 2.6.3 FOR THE LAYOUT OF THESE ITEMS):

- TITLE CARD WITH NAME AS SUBTITLE (PRIMARY SUBROUTINE)
- SPACE CARD (SEE SECTION 3.6.3)
- INTERNAL COMMENT CARD GIVING NAME AND TITLE OF SUBROUTINE
- ENTRY CONDITIONS (LIST)
- EXIT CONDITIONS (LIST)
- REGISTER OR DIRECT CELL USAGE (LIST)
- ROUTINES CALLED (LIST)
- MACROS CALLED (LIST)
- DESCRIPTION OF ALLOCATED REGISTERS
- TIMING CONSIDERATIONS, IF CRITICAL
- DESIGN, IMPLEMENTATION AND GENERAL INFORMATION
- TWO BLANK CARDS

77/11/21

THE TITLE OF THE SUBROUTINE SHOULD DESCRIBE THE ACTION PERFORMED BY THE SUBROUTINE (FOR EXAMPLE, POSITION MASS STORAGE, MAKE QUEUE ENTRY). THIS MEANS THAT TITLES SHOULD ALWAYS CONTAIN A VERB. TITLES WITHOUT VERBS SHOULD BE USED FOR GROUPS OF SUBROUTINES AND COMSXXX DECKS.

DEFINED FORMATS EXIST FOR THE LIST OF ITEMS IN THE SUBROUTINE HEADING. A KEYWORD APPEARS IN COLUMN 11, FOLLOWED BY TEXT IN COLUMN 18. THE TEXT IS SIMPLY A LIST, RATHER THAN COMPLETE SENTENCES. ANY LIST REQUIRING MORE THAN ONE CARD IS CONTINUED BEGINNING IN COLUMN 18 (OR BEYOND) OF THE NEXT COMMENT CARD. THE FORMATS ARE SHOWN BELOW. EACH LIST ENDS WITH A PERIOD.

ENTRY	ENTRY CONDITIONS.
EXIT	EXIT CONDITIONS.
USES	REGISTER OR DIRECT CELLS DESTROYED.
CALLS	ROUTINES CALLED.
MACROS	MACROS CALLED.
DEFINE	LIST OF ALLOCATABLE REGISTERS.
TIMING	DESCRIPTION OF TIMING CONSIDERATIONS.
NOTES	PROGRAMMING INFORMATION.

DOCUMENTATION FOR COMMON DECKS AND ZERO LEVEL OVERLAYS SHOULD INCLUDE SUBROUTINE LEVEL DOCUMENTATION WHERE APPROPRIATE.

#### 2.4.1 ENTRY CONDITIONS

ENTRY CONDITIONS MAY INCLUDE THE FOLLOWING ITEMS:

- REGISTERS, DIRECT CELLS OR MEMORY LOCATIONS THAT MUST BE SET BEFORE THE SUBROUTINE IS CALLED.
- LOGICAL STATUS OF CHANNELS, FILES, ETC., (IE. CHANNELS RESERVED, FILES SET BUSY, DISK POSITIONED, FILES POSITIONED) THAT SHOULD EXIST BEFORE THE SUBROUTINE IS CALLED.

ONLY ONE ENTRY CONDITION MAY BE SPECIFIED PER LINE. FOR PPU CODE, THE CONTENTS OF THE A REGISTER SHOULD BE DESCRIBED FIRST.

#### 2.4.2 EXIT CONDITIONS

EXIT CONDITIONS INCLUDE THE FOLLOWING ITEMS:

- REGISTERS, DIRECT CELLS OR MEMORY LOCATIONS THAT MAY BE USED BY SUBSEQUENT ROUTINES.
- LOGICAL STATUS OF CHANNELS, FILES, ETC., (IE. CHANNELS RESERVED, FILES SET BUSY, DISK POSITIONED, FILES POSITIONED) THAT EXIST WHEN THE SUBROUTINE IS EXITED.
- SPECIAL TERMINATIONS OF THE SUBROUTINE SUCH AS JUMPS TO ERROR PROCESSORS OR TO ANY OTHER ROUTINES. THE LABEL BEING

77/11/21

JUMPED TO AND THE CONDITIONS THAT CAUSE THE SPECIAL EXIT SHOULD BE DOCUMENTED.

ONLY ONE EXIT CONDITION IS LISTED PER LINE. FOR PPU CODE, THE CONTENTS OF THE A REGISTER SHOULD BE DESCRIBED FIRST.

#### 2.4.3 REGISTER OR DIRECT CELL USAGE

REGISTERS OR DIRECT CELLS USED INCLUDE ALL REGISTERS OR DIRECT CELLS DESTROYED BY THAT SUBROUTINE ONLY.

FOR CPU CODE, THE FORMAT OF THE USES BLOCK INCLUDES A REGISTER TYPE (X - OPERAND REGISTER, A - ADDRESS REGISTER, B - INDEX REGISTER) FOLLOWED BY A SEQUENCE OF ASCENDING NUMBERS INDICATING THE REGISTERS USED.

EXAMPLE:

X - 0, 1, 6.  
A - 1, 6.  
B - 3, 7.

INDICATES THE FOLLOWING REGISTERS ARE USED:

X0, X1, X6, A1, A6, B3, B7.

FOR PPU CODE, SINGLE DIRECT CELLS ARE LISTED IN ALPHABETICAL ORDER FOLLOWED BY MULTIPLE DIRECT CELLS LISTED IN ALPHABETICAL ORDER.

EXAMPLE:

T1, T2, T5, CM - CM+4, RI - RI+1.

THE DIRECT CELL AT PPU MEMORY LOCATION 0 (T0) IS ASSUMED TO BE USED BY EVERY SUBROUTINE UNLESS OTHERWISE STATED IN THE ENTRY/EXIT CONDITIONS. THIS IS BECAUSE CERTAIN INSTRUCTIONS, SUCH AS CRM AND CWM, DESTROY LOCATION ZERO.

#### 2.4.4 ROUTINES CALLED

ROUTINES CALLED BY A SUBROUTINE INCLUDE ALL SUBROUTINES AND OVERLAYS THAT ARE EXPLICITLY CALLED. ROUTINES CALLED BY MACROS ARE NOT TO BE INCLUDED.

#### 2.4.5 MACROS CALLED

MACROS CALLED INCLUDE ALL MACROS THAT ARE EXPLICITLY CALLED BY A SUBROUTINE.



77/11/21

#### 2.4.6 ALLOCATED REGISTERS OR DIRECT CELLS

ALLOCATED REGISTERS ARE REGISTERS (OR DIRECT CELLS FOR PPU CODE) USED FOR WELL DEFINED ITEMS THROUGHOUT A PARTICULAR SUBROUTINE OR PROGRAM.

#### 2.4.7 TIMING CONSIDERATIONS

TIMING CONSIDERATIONS SHOULD DESCRIBE ANY TIMING LIMITATIONS THAT ARE IMPOSED ON THE SUBROUTINE BECAUSE OF HARDWARE OR PERFORMANCE CONSTRAINTS. CARE SHOULD BE TAKEN TO EXPRESS UNITS OF TIME IN A MANNER INDEPENDENT OF MACHINE TYPE. FOR EXAMPLE, UNITS OF TIME EXPRESSED IN CYCLES RATHER THAN MICROSECONDS IS MORE DESIRABLE. THIS IS BECAUSE THE SAME ROUTINE MAY EXECUTE FASTER OR SLOWER THAN STATED DEPENDING ON THE TYPE OF THE PPU OR CPU IT EXECUTES IN.

#### 2.4.8 NOTES

THIS SECTION DOCUMENTS DESIGN, IMPLEMENTATION AND GENERAL INFORMATION THAT MAY BE USEFUL TO OTHER ANALYSTS. INFORMATION IN THIS SECTION PERTAINS TO THE SUBROUTINE ONLY.

#### 2.5 CODE LEVEL DOCUMENTATION

ALL DOCUMENTATION WHICH IS NOT DESCRIBED IN ONE OF THE PRECEDING SECTIONS OF THIS DOCUMENT FALLS INTO THE CATEGORY OF CODE LEVEL DOCUMENTATION. THE REQUIREMENTS FOR THIS TYPE OF DOCUMENTATION VARY WIDELY, SO FEW RULES CAN BE STATED; HOWEVER, CODE LEVEL DOCUMENTATION IS NECESSARY AND THE LACK OF EXPLICIT REQUIREMENTS MUST NOT LEAD TO ITS NEGLECT.

CODE LEVEL DOCUMENTATION, ALONG WITH THE SUBROUTINE HEADINGS, MUST SATISFY THE NEED FOR AID IN READING THE CODE. ITS CONTENT FOLLOWS THE GUIDELINES FOR DETAILED CODE ANALYSIS IN SECTION 2.1.4.

##### 2.5.1 STAND-ALONE COMMENTS

STAND-ALONE COMMENTS ARE COMMENT CARDS APPEARING IN-LINE WITH CODE, AS OPPOSED TO WITHIN HIGHER-LEVEL DOCUMENTATION PREVIOUSLY DEFINED. ALL STAND-ALONE COMMENTS ARE PRECEDED AND FOLLOWED BY ONE BLANK CARD.

STAND-ALONE COMMENTS DESCRIBE THE FUNCTION PERFORMED BY THE SUBSEQUENT SECTION OF IN-LINE CODE. THE COMMENTS ARE COMPLETE ENGLISH SENTENCES WITH CORRECT PUNCTUATION, ENDING WITH A PERIOD. THE COMMENTS REFER TO FUNCTIONS AND DATA IN EXTERNAL TERMS, RATHER THAN ONLY IN OCTAL NUMBERS AND BIT POSITIONS. THESE COMMENTS FOLLOW THE GENERAL REQUIREMENTS FOUND IN SECTION 2.2.

## 2.5.2 EMBEDDED COMMENTS

EMBEDDED COMMENTS ARE COMMENTS IN COLUMNS 30-71 OF A CARD ASSEMBLED BY COMPASS, NOT A COMMENT CARD. THE COMMENT NEED NOT BE A COMPLETE SENTENCE. THIS TYPE OF COMMENT IS NEVER CONTINUED ONTO ANOTHER CARD. IF THE INTENDED COMMENT IS TOO LONG TO FIT ON THE SINGLE CARD, IT IS INSERTED AS A STAND-ALONE COMMENT PRECEDING THE AREA OF CODE TO WHICH IT APPLIES.

AN EMBEDDED COMMENT DESCRIBES THE FUNCTION OF THE INSTRUCTION OR SEQUENCE OF INSTRUCTIONS ON WHICH IT APPEARS. (IT MUST BE AT THE BEGINNING OF THE SEQUENCE.) IT DOES NOT DESCRIBE THE HARDWARE OPERATION BEING PERFORMED, BUT RATHER ITS MEANING IN THE CONTEXT OF THE FUNCTION TO BE PERFORMED BY THE PROGRAM.

AN EMBEDDED COMMENT IS REQUIRED ON EACH JUMP INSTRUCTION, TO IDENTIFY THE CONDITION BEING TESTED (CONDITIONAL JUMPS) OR THE ACTION BEING TAKEN (UNCONDITIONAL JUMPS). ON JUMP INSTRUCTIONS, THE WORD 'JUMP' IS SUPERFLUOUS, AND IS NOT USED. ON CONDITIONAL JUMPS, THE COMMENT BEGINS WITH THE WORD 'IF' AND DESCRIBES THE CONDITION ON WHICH THE JUMP WILL BE EXECUTED. THESE COMMENTS FOLLOW THE GENERAL REQUIREMENTS FOUND IN SECTION 2.2.

AN EMBEDDED COMMENT IS REQUIRED ON ALL PSEUDO TESTS (ERRNZ, ERRPL, ETC.). THE COMMENT SHOULD STATE THE CONDITION FOR WHICH THE TEST FAILS.

2.6 DOCUMENTATION EXAMPLES

THESE EXAMPLES ARE STATEMENTS OF THE STANDARD AND ARE INTENDED AS FURTHER CLARIFICATION OF THE REQUIRED PROCEDURES.

2.6.1 PROGRAM LEVEL

```

**** LIBEDIT - LIBRARY EDITING PROGRAM.
*
*   A. B. ORIGINAL.      74/01/01.
*   A. B. MODIFIER.     75/01/01.
*   C. D. MODIFIER.     76/01/01.
*
* LIBEDIT IS A GENERAL PURPOSE FILE EDITING
* PROGRAM CAPABLE OF MODIFYING AND
* GENERATING LIBRARY FILES.
*   SPACE      4,10
*** LIBEDIT IS A GENERAL PURPOSE FILE EDITING
* PROGRAM CAPABLE OF MODIFYING AND
* GENERATING LIBRARY FILES.
*   SPACE      4,10
*** CONTROL CARD CALL.
*
*
*   SPACE      4,10
*** DAYFILE MESSAGES.
*
*
*   SPACE      4,10
*** ACCOUNT MESSAGES.
*
*
*   SPACE      4,10
*** ERRLOG MESSAGES.
*
*
*   SPACE      4,10
*** OPERATOR MESSAGES.
*
*
*   SPACE      4,10
**** ASSEMBLY CONSTANTS.

BUFL  EQU      1001B      OUTPUT BUFFER LENGTH
****

```

2.6.2 SUBROUTINE LEVEL (PP CODE)

```

TITLE      ERROR PROCESSING ROUTINES.
SPACE      4,20
LEM - LIST ERROR MESSAGE.
*
*
* ENTRY     (A) = 1 IF SINGLE BIT SECCED ERROR.
*           = 2 IF STATUS/CONTROL REGISTER
*           ERROR LIMIT.
*           (SCRA - SCRA+20) = SCR IMAGE.
*           (NL) = ADDRESS OF NEXT LIST ENTRY.
*
* EXIT      (NL) = UPDATED LIST POINTER.
*           TO *ERR* IF ERROR ENCOUNTERED.
*
* USES      T1, T2, CH - CH+4, FN - FN+4.
*
* CALLS     LMC.
*
* MACROS    MONITOR, SUBR.
*
* DEFINE    (T2) = FWA OF MESSAGE.
*
* TIMING    A DELAY IS NEEDED TO AVOID FILLING THE
*           DISK WITH ERRLOG MESSAGES.
*
LEM SUBR          ENTRY/EXIT
.
.
.
UJN LEMX          RETURN
    
```

2.6.3 SUBROUTINE LEVEL (CP CODE)

```

ACS      SPACE      4,20
**      ACS - ASSEMBLE CHARACTER STRING.
*
*      ENTRY      (B6) = FWA OF CHARACTER STRING.
*              (B7) = LENGTH OF STRING BUFFER.
*
*      EXIT      (CBUF - CBUF+20) = CHARACTER STRING.
*
*      USES      X - 0, 1, 6.
*              A - 1, 6.
*              B - 6, 7.
*
*      CALLS     MCI.
*
*      MACROS    SUBR.
*
*      DEFINE    (X0) = CHARACTER MASK.
    
```

```

ACS      SUBR              ENTRY/EXIT
.
.
.
EQ      ACSX              RETURN
    
```

### 3.0 CODING

#### 3.1 CARD/LINE LAYOUTS

##### 3.1.1 COMPASS OPERATION CARDS

THE FOLLOWING LIST OF COLUMN NUMBERS REPRESENT THE BEGINNING OF EACH FIELD IN A COMPASS CODING CARD OR LINE. (AN EXCEPTION IS ALLOWED FOR MACRO DEFINITIONS IN SYSTEM TEXTS WHERE SPACE IS CRITICAL.)

COLUMN 2 = LOCATION FIELD  
COLUMN 11 = OPERATION FIELD  
COLUMN 18 = ADDRESS FIELD  
COLUMN 30 = COMMENT FIELD  
COLUMN 73 = RESERVED

IF A FIELD IS FULL OR OVERFLOWS INTO AN ADJACENT FIELD, THEN TWO SPACES SHOULD SEPARATE THE FIELDS. COLUMN 72 OF THE COMMENT FIELD SHOULD ALWAYS BE BLANK.

##### 3.1.2 COMPASS COMMENT CARDS

THE FOLLOWING LIST OF COLUMN NUMBERS REPRESENT THE FORMAT OF A COMMENT CARD. A FULL DESCRIPTION OF WHERE AND HOW TO USE COMMENT CARDS IS FOUND IN SECTION 2.

COLUMN 1 = ALWAYS CONTAINS AN ASTERISK  
COLUMN 2-5 = (SEE SECTION 2.2.3)  
COLUMN 6-10 = ALWAYS BLANK  
COLUMN 11-72 = CONTAINS THE TEXT OF THE COMMENT  
COLUMN 73-80 = RESERVED

#### 3.2 PROGRAM LAYOUT

THE FOLLOWING SECTIONS DEFINE THE COMPONENTS OF A PROGRAM IN THE ORDER THEY APPEAR WITHIN THE PROGRAM. IT IS NOT EXPECTED OR REQUIRED THAT EVERY PROGRAM WILL CONSIST OF ALL COMPONENTS DESCRIBED. IN THIS DISCUSSION A 'PROGRAM' IS A RELOCATABLE PROGRAM UNIT (FROM 'IDENT' TO 'END'), AN ENTIRE ABSOLUTE PROGRAM OR A COMMON DECK. A SUBROUTINE IS A CLOSED ROUTINE WITHIN A PROGRAM.

3.2.1 GROUP 1 INSTRUCTIONS

GROUP 1 INSTRUCTIONS APPEAR AT THE BEGINNING OF EACH PROGRAM AND CONTAIN THE IDENTIFICATION AND ENVIRONMENT INFORMATION FOR THE PROGRAM. THE FOLLOWING EXAMPLES DEFINE THE LAYOUT OF THE GROUP 1 INSTRUCTIONS FOR EACH TYPE OF PROGRAM.

3.2.1.1 PERIPHERAL PROCESSOR PROGRAMS

```

IDENT      XXX,ORIGIN
MACHINE
PERIPH
NOLABEL    (DEADSTART ROUTINES)
BASE      M
LIST      (OPTIONAL)
SST
TITLE     XXX - PROGRAM DESCRIPTION.
*COMMENT  PROGRAM DESCRIPTION. (NOS ONLY)
COMMENT   PROG. DESC. (NOS/BE ONLY)
COMMENT   COPYRIGHT CONTROL DATA CORPORATION. YEAR.
XXX      SPACE 4,10
    
```

3.2.1.2 CENTRAL PROCESSOR PROGRAMS

```

IDENT      XXXXXXX,FWA
ABS
MACHINE    (OPTIONAL)
LCC        (OPTIONAL)
SST        (OPTIONAL)
ENTRY     XXXX (OPTIONAL)
SYSCOM    B1
LIST      (OPTIONAL)
TITLE     XXX - PROGRAM DESCRIPTION.
*COMMENT  PROGRAM DESCRIPTION. (NOS ONLY)
COMMENT   PROG. DESC. (NOS/BE ONLY)
COMMENT   COPYRIGHT CONTROL DATA CORPORATION. YEAR.
XXX      SPACE 4,10
    
```

3.2.1.3 COMMON DECKS

```

CTEXT     XXXXXXX - COMMON DECK DESCRIPTION.
SPACE    4,10
IF       -DEF,QUALS,1
QUAL     XXXXXXX
BASE     X (X-ANY LEGAL VALUE)
CODE     X (OPTIONAL)
*COMMENT  COPYRIGHT CONTROL DATA CORPORATION. YEAR.
XXX      SPACE 4,10
    
```

77/11/21

REFER TO SECTION 4.4.3 FOR FURTHER INFORMATION ON QUALIFICATION OF COMMON DECKS.

### 3.2.2 PROGRAM LEVEL DOCUMENTATION

PROGRAM LEVEL DOCUMENTATION CONSISTS OF OVERVIEW, EXTERNAL AND INTERNAL DOCUMENTATION AS DESCRIBED IN SECTION 2.3.

### 3.2.3 MACRO DEFINITIONS

THE MACROS ARE IN ALPHABETICAL ORDER. COMMON DECKS WHICH DEFINE MACROS SHOULD BE INCLUDED BEFORE LOCAL MACRO DEFINITIONS IN ALPHABETICAL ORDER.

### 3.2.4 INSTALLATION SYMBOL DEFINITIONS

INSTALLATION SYMBOLS ARE PARAMETERS THAT MAY BE CHANGED BY A SITE WHEN INSTALLING A PRODUCT. THESE SYMBOLS MAY INCLUDE BUFFER LENGTHS, DEFAULT VALUES, AND TIMING DELAYS. INSTALLATION SYMBOLS ARE DEFINED IN ALPHABETICAL ORDER UNLESS FUNCTIONAL ORDER IS MORE MEANINGFUL. THE INSTALLATION SYMBOL DEFINITION AREA SHOULD BE BRACKETED BY INTERNAL BRACKET CARDS (\*\*\*\*).

### 3.2.5 LOCAL SYMBOL DEFINITIONS

LOCAL SYMBOLS ARE PARAMETERS THAT SHOULD NOT BE CHANGED BY AN INSTALLATION. THESE SYMBOLS MAY INCLUDE CODE GENERATION SYMBOLS (QUALS, DBIS, ETC.) AND SYMBOLS USED FOR CROSS REFERENCE PURPOSES. LOCAL SYMBOLS ARE DEFINED IN ALPHABETICAL ORDER, UNLESS FUNCTIONAL ORDER IS MORE MEANINGFUL.

### 3.2.6 GLOBAL MEMORY DEFINITIONS

THIS SECTION OF THE PROGRAM IS USED TO DEFINE MEMORY THAT IS PRESET WITH DATA. THIS SECTION MAY INCLUDE FETS, TABLES, AND WORKING STORAGE. GLOBAL MEMORY DEFINITIONS ARE DEFINED IN ALPHABETICAL ORDER UNLESS FUNCTIONAL ORDER IS MORE MEANINGFUL.

### 3.2.7 MAIN LOOP

THIS SECTION OF THE PROGRAM CONTAINS THE MAJOR LOGIC AND CONTROL FLOW FOR THE PROGRAM AND INTERNAL DOCUMENTATION FOR THAT FLOW (SEE SECTION 2.4).



3.2.8 PRIMARY SUBROUTINES

THIS SECTION OF THE PROGRAM CONTAINS THE SUBROUTINES WHICH ARE OF MAJOR IMPORTANCE TO THE PROGRAM. THEY SHOULD BE IN ALPHABETICAL ORDER UNLESS THERE IS A LOGICALLY ASSOCIATED SET OF SUBROUTINES WHICH INTERACT TOGETHER (IN WHICH CASE THESE SUBROUTINES MAY BE GROUPED TOGETHER). EACH SUBROUTINE CONTAINS DOCUMENTATION AS DESCRIBED IN SECTION 2.4.

3.2.9 SECONDARY SUBROUTINES

THIS SECTION OF THE PROGRAM CONTAINS SUBROUTINES OF MINOR IMPORTANCE TO THE PROGRAM. THEY SHOULD BE IN ALPHABETICAL ORDER UNLESS THERE IS A LOGICALLY ASSOCIATED SET OF SUBROUTINES WHICH INTERACT TOGETHER (IN WHICH CASE THESE SUBROUTINES MAY BE GROUPED TOGETHER). A TITLE CARD WITH THE SUBTITLE 'SECONDARY SUBROUTINES' PRECEDES THE FIRST SECONDARY SUBROUTINE. EACH SUBROUTINE CONTAINS DOCUMENTATION AS DESCRIBED IN SECTION 2.4.

COMMON DECKS (EXCEPT THOSE USED FOR INITIALIZATION) ARE AFTER THE SECONDARY SUBROUTINES. COMMON DECKS SHOULD BE LISTED IN ALPHABETICAL ORDER WHENEVER POSSIBLE.

3.2.10 WORKING STORAGE AND BUFFERS

THIS SECTION OF THE PROGRAM CONTAINS WORKING STORAGE AND BUFFER DEFINITIONS THAT ARE NOT PRESET WITH DATA. BUFFER DEFINITIONS SHOULD BE DEFINED WITH EQU INSTRUCTIONS. (REFER TO SECTION 3.4.5)

3.2.11 INITIALIZATION CODE

CODE WHICH MAY BE OVERLAYED AFTER PROGRAM INITIALIZATION IS INCLUDED HERE.

3.2.12 PROGRAM TERMINATION

ALL PROGRAMS END WITH AN 'END' STATEMENT EXCEPT COMMON DECKS WHICH END AS FOLLOWS:

```

        BASE      *
        CODE      *          (OPTIONAL IF CODE USED)
QUAL $  IF       -DEF,QUAL $
        QUAL      *
XXX     EQU      /XXXXXXXX/XXX (UNQUALIFIED ENTRY POINT)
        .
        .
QUAL $  ENDIF
XXX     ENDX
    
```

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

IF 'CODE X' IS USED AT THE BEGINNING BUT 'CODE #' IS NOT USED AT THE END OF A COMMON DECK, IT MUST BE EXPLICITLY DOCUMENTED IN THE COMMON DECK HEADER.

3.3 INSTRUCTION USE, FORMAT AND PARAMETERS

3.3.1 REGISTER USE AND SPECIFICATION

3.3.1.1 B0 REGISTER USE

THE B0 REGISTER SHOULD NOT BE SPECIFIED IN INSTRUCTIONS WHICH TEST B REGISTERS. THE ASSEMBLER ASSUMES B0 IF THE REQUISITE NUMBER OF B REGISTERS IS NOT SPECIFIED.

3.3.1.2 B1 REGISTER USE

THE B1 REGISTER MUST ALWAYS CONTAIN THE VALUE ONE (1). THE 'SYSCOM B1' MACRO IS INCLUDED IN EACH PROGRAM TO INDICATE THAT B1 WILL CONTAIN THIS VALUE. B1 MUST BE SET TO 1 IMMEDIATELY UPON PROGRAM ENTRY. B1 IS THEN USED BY COMPASS IN CONJUNCTION WITH THE R= PSEUDO INSTRUCTION TO GENERATE 15 BIT INSTRUCTIONS RATHER THAN 30 BIT INSTRUCTIONS.

3.3.1.3 PACK AND NOMINAL SHIFT X REGISTERS

IN THE PACK AND NOMINAL SHIFT INSTRUCTIONS, THE X REGISTER IS SPECIFIED BEFORE THE B REGISTER, AS FOLLOWS:

PXI XK,BJ  
LXI XK,BJ

3.3.1.4 UNPACK AND NORMALIZE X REGISTERS

IN THE UNPACK AND NORMALIZE INSTRUCTIONS, THE B REGISTER IS SPECIFIED IN THE OPCODE FIELD IMMEDIATELY FOLLOWING THE OPCODE.

UXI,BJ XK  
NXI,BJ XK

3.3.2 MULTIPLE LOGICAL TESTS

WHEN A PPU PROGRAM TESTS A VALUE IN THE A-REGISTER FOR EQUALITY WITH SEVERAL POSSIBLE VALUES, IT IS DONE WITH A SEQUENCE OF LOGICAL DIFFERENCE (EXCLUSIVE 'OR') OPERATIONS, AS FOLLOWS:

LMC AA  
ZJN XYZ12 IF TYPE AA  
LMC BB&AA  
ZJN XYZ24 IF TYPE BB  
LMC CC&BB  
ZJN XYZ36 IF TYPE CC

THE VALUE BEING TESTED IS SPECIFIED FIRST IN THE LMC.

3.3.3 SHIFT INSTRUCTION PARAMETERS

SHIFT COUNTS IN SHIFT INSTRUCTIONS WHICH ARE USED TO TEST BITS, ARE CODED IN ONE OF THE FOLLOWING FORMS:

A-B (FIRST SHIFT OF A WORD)

A-B-AA+BB+M (NEXT SHIFT OF THE WORD)

WHERE:

- A -THE DESIRED POSITION OF A BIT IN THE WORD.
- B -THE ORIGINAL POSITION OF A BIT IN THE WORD (BEFORE ANY SHIFTS).
- AA, BB-THE A AND B PARAMETERS FROM THE PREVIOUS SHIFT OF THIS WORD.
- M -MODULUS VALUE

NOTE: THE MODULUS VALUES (60 FOR CPU AND 228 FOR PPU) MAY HAVE TO BE ADDED TO THE SHIFT VALUE IF THE RESULTING VALUE IS NOT WITHIN THE LEGAL LIMITS FOR THE INSTRUCTION.

EXAMPLE:

1. TO SHIFT BIT 47 TO BIT 59:

LXI 59-47

2. TO SHIFT THE RESULT OF EXAMPLE 1 SO THAT BIT 32 OF THE ORIGINAL REGISTER (BEFORE ANY SHIFTS) IS IN BIT 59 OF THE RESULT:

LXI 59-32-59+47

3. TO SHIFT THE RESULT OF EXAMPLE 2 SO THAT BIT 58 OF THE ORIGINAL REGISTER (BEFORE ANY SHIFTS) IS IN BIT 59 OF THE RESULT:

LXI 59-58-59+32

EXAMPLE:

1. TO SHIFT BIT 2 TO BIT 21:

SHN 21-2

2. TO SHIFT THE RESULT OF EXAMPLE 1 SO THAT BIT 5 OF THE ORIGINAL REGISTER (BEFORE ANY SHIFT) IS IN BIT 21 OF THE RESULT:

SHN 21-5-21+2+22

77/11/21

A MODULUS OF 220 IS NEEDED IN THIS CASE TO AVOID EXECUTING A RIGHT SHIFT (IE. THE RESULTANT SHIFT WOULD OTHERWISE BE NEGATIVE.)

### 3.3.4 BOOLEAN MASK USAGE

THE MASK CREATED FOR USE IN BOOLEAN INSTRUCTIONS DEPENDS ON WHETHER THE FIELD OF BITS TO BE EXTRACTED IS IN THE LEFT OR RIGHT HAND PART OF THE WORD. IF THE FIELD OF N BITS IS IN THE LEFT HAND PART OF THE WORD, USE THE FOLLOWING METHOD:

MXI        N  
BXJ        XI\* $X_K$  (XJ CONTAINS THE EXTRACTED FIELD)

IF THE FIELD OF N BITS IS IN THE RIGHT HAND PART OF THE WORD, THE FOLLOWING METHOD IS USED:

MXI        -N  
BXJ        -XI\* $X_K$  (XJ CONTAINS THE EXTRACTED FIELD)

IF THE MASK IS USED IN MORE THAN ONE WAY, THE FIRST USE DETERMINES HOW IT IS DEFINED.

### 3.3.5 RELATIVE ADDRESSING

RELATIVE ADDRESSING (SUCH AS  $\phi+N$  AND  $\phi-N$ , WHERE N IS A NUMERIC VALUE) SHOULD NOT BE USED EXCEPT:

1. IN TIMING DELAYS (WHERE  $\phi-1$  IS THE ONLY ACCEPTABLE VALUE).
2. FOR INSTRUCTION MODIFICATION (WHERE  $\phi-1$  OR  $\phi-2$  ARE THE ONLY ACCEPTABLE VALUES).
3. IN PPU CODE TO REFERENCE BYTES WITHIN A CPU WORD. THE RELATIVE ADDRESS MUST BE IN ONE OF THE FOLLOWING FORMS:

TAG+N  
TAG+C\*5+N

WHERE:

TAG = BASE ADDRESS  
C = CM WORD WITHIN THE PP BUFFER  
N = BYTE WITHIN THE CM WORD (0 - 4)

### 3.3.6 JUMP INSTRUCTION USE

UNCONDITIONAL JUMPS IN CPU CODE ARE CODED USING THE EQ INSTRUCTION SO THAT THE INSTRUCTION STACK IS NOT VOIDED. WHEN IT IS NECESSARY TO VOID THE INSTRUCTION STACK THE RJ INSTRUCTION IS USED. (THE RJ IS THE ONLY INSTRUCTION WHICH VOIDS THE STACK ON ALL CENTRAL PROCESSORS.)

A BLANK CARD IS INSERTED AFTER EACH UNCONDITIONAL JUMP INSTRUCTION TO INDICATE A BREAK IN THE PROGRAM FLOW. IF THE UNCONDITIONAL JUMP OCCURS AT THE END OF A SUBROUTINE, A SPACE CARD OR TITLE CARD MAY BE USED.

A BLANK CARD IS ALSO REQUIRED AFTER AN IMPLIED UNCONDITIONAL JUMP. THE FOLLOWING ARE EXAMPLES OF AN IMPLIED UNCONDITIONAL JUMP.

EXAMPLE:

A BLANK CARD SHOULD BE INSERTED AFTER MACRO CALLS THAT BREAK THE FLOW OF EXECUTION IN A SEQUENCE OF CODE.

```

      .
      .
      .
      NZ      X1,TAG2      IF COMMENT
      ABORT
      (BLANK CARD)
TAG2  SA1      B2
      .
      .
      .

```

EXAMPLE:

WHEN CODE OCCURS BEFORE THE SUBR, THERE SHOULD BE A BLANK CARD BETWEEN THE CODE AND THE SUBR.

```

TAG1  LDN      0          COMMENT
      (BLANK CARD)
TAG   SUBR          ENTRY/EXIT
      .
      .
      .
      UJN      TAGX      RETURN

```

3.3.7 SUBROUTINE ENTRY

EACH SUBROUTINE HAS ONE AND ONLY ONE ENTRY POINT. EXCEPTIONS ARE ALLOWED AS FOLLOWS:

IF MEMORY LIMITATIONS IN A PPU PROGRAM MAKE THIS IMPRACTICAL.

FOR TERMINAL SUBROUTINES (SUCH AS ERROR PROCESSORS). EACH ENTRY POINT SHOULD BE DOCUMENTED WITHIN THE SUBROUTINE.

PPU AND CPU SUBROUTINES WHICH ARE ENTERED VIA A RETURN JUMP CONTAIN THE FOLLOWING INSTRUCTION AT THEIR ENTRY/EXIT POINT:

TAG	SUBR	ENTRY/EXIT
	.	
	.	
	.	
	UJN	TAGX RETURN

OR,

TAG	SUBR	ENTRY/EXIT
	.	
	.	
	.	
	EQ	TAGX RETURN

WHEN SPACE IS CRITICAL IN A PPU PROGRAM, A SUBROUTINE MAY CONSIST OF A BLOCK OF CODE THAT IS ENTERED BY A LONG JUMP INSTRUCTION. IN THIS CASE, THE SUBROUTINE ENTRY POINTS SHOULD BE CLEARLY DOCUMENTED.

3.3.8 CPU CODE OPTIMIZATION

AN EFFORT SHOULD BE MADE TO AVOID THE GENERATION OF NO-OPS AT THE END OF A 60-BIT WORD. THIS MAY BE DONE BY ARRANGEMENT OF CODE SO THAT EACH 60-BIT WORD IS COMPLETELY FILLED WITH EXECUTABLE CODE. THIS IS ALSO DONE FOR INSTRUCTIONS WHICH HAVE AN OPTIONAL 'K' PARAMETER BY SUPPLYING A ZERO VALUE FOR 'K', THUS GENERATING A 30-BIT INSTRUCTION INSTEAD OF A 15-BIT INSTRUCTION. THE WAY TO DO THIS IS TO APPEND A '+' TO THE REGISTER IN THE VARIABLE FIELD OF THE INSTRUCTION, AS SHOWN BELOW:

SA4 A1+ (GENERATES 30-BIT INSTRUCTION)

THIS INDICATES THAT THE PADDING WAS ADDED FOR OPTIMIZATION PURPOSES AND IS TO BE REMOVED AS NECESSARY WHEN THE CODE IS MODIFIED.

3.3.9 CLEARING PPU MEMORY

THE FOLLOWING CODING SEQUENCES ARE USED TO CLEAR 5 CONSECUTIVE WORDS OF PPU MEMORY TO ZEROES:

```

-----
I          -NOS ONLY-
I
I          LDN      ZERL
I          CRD      TAG
-----

-----
I          -NOS/BE ONLY-
I
I          LDN      P.ZERO
I          CRD      TAG
-----
    
```

THE CONSTANTS ZERL AND P.ZERO SHOULD NOT BE ASSUMED TO BE AT ADDRESS ABSOLUTE ZERO IN MEMORY.

3.3.10 INSTRUCTION MODIFICATION

INSTRUCTIONS WHICH ARE MODIFIED ARE FOLLOWED BY A COMMENT WHICH SHOWS EACH ALTERNATIVE FORM UNDER WHICH THE INSTRUCTION CAN TAKE. THE FOLLOWING EXAMPLES SHOW THE LAYOUT USED:

EXAMPLE:

```

TAG      LDC      TRCO      SET READ FUNCTION
*        LDC      TMTD      (WRITE FUNCTION)
*        LDC      TFCN      (POSITION FUNCTION)
TAGA     EQU      +-1
    
```

EXAMPLE:

```

TAGA     LDC      *          RESTORE (T1)
*        LDC      (T1)      (CONTENTS OF T1)
          STD      T1
    
```

THE COMMENT IN ( ) SHOULD DESCRIBE THE CONDITIONS UNDER WHICH THE INSTRUCTION IS CHANGED.

PPU SHORT JUMP INSTRUCTIONS WHICH MUST BE MODIFIED ARE TESTED FOR RANGE ERRORS. THE LOC PSEUDO-OP IS USED AND THE JUMP INSTRUCTION ACTUALLY ASSEMBLED IF THE PROGRAM SIZE IS NOT A CRITICAL FACTOR. FOR EXAMPLE:

```

      .
      .
      .
TAGA  MJN      TAG1      IF TIME NOT EXPIRED
    
```



LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

*	UJN	TAG2	(ONE CPU ONLY)
	.		
	.		
	.		
	LOC	TAGA	
	UJN	TAG2	
	LOC	*0	

WHEN PROGRAM SIZE IS A CONSTRAINING FACTOR, THE ERRNG PSUEDO INSTRUCTION MAY BE USED TO TEST FOR RANGE ERRORS AS FOLLOWS:

ERRNG	$37 + DADDR - JADDR$	(COMMENT)
ERRNG	$37 + JADDR - DADDR$	(COMMENT)

WHERE:

JADDR	= ADDRESS OF JUMP INSTRUCTION
DADDR	= DESTINATION ADDRESS OF JUMP

INSTRUCTION MODIFICATION SHOULD BE AVOIDED IN CPU CODE. (CAUTION MUST BE TAKEN TO ENSURE THAT THE INSTRUCTION TO BE MODIFIED IS NOT ALREADY IN THE INSTRUCTION STACK.)

3.3.11 COMMON DECK REGISTER USAGE

CPU CODE WITHIN COMMON DECKS AVOIDS USING REGISTERS A0, A5, X0 AND X5 UNLESS ABSOLUTELY NECESSARY.

77/11/21

## 3.4 DATA USE, FORMAT AND PARAMETERS

## 3.4.1 LITERALS

LITERALS MAY BE USED FOR READ ONLY CONSTANTS ONLY.

## 3.4.2 DATA FORMATS

DATA IS SPECIFIED IN ITS NATURAL FORM (READABLE AND UNDERSTANDABLE BY HUMANS) USING POST-RADIX SYMBOLS AS REQUIRED (SEE SECTION 3.6.1). IF CONVERSION CONSIDERATIONS MAKE THIS IMPOSSIBLE, THE COMMENT FIELD WILL CONTAIN THE NATURAL FORM OF THE DATA. OCTAL VALUES ARE NOT USED FOR CHARACTER DATA UNLESS THE DATA CANNOT BE SPECIFIED IN ANY OTHER WAY. WHEN THE VFD IS USED, IT CANNOT GENERATE MORE THAN ONE CM WORD OF DATA.

ONLY ONE PIECE OF DATA IS SPECIFIED ON A LINE OF CODE UNLESS A BLOCK OF DATA IS BEING SPECIFIED FOR USE AS A SINGLE DATA ITEM, TO BE REFERENCED BY A SINGLE NAME.

## 3.4.3 TABLE GENERATION

TABLES WHICH ARE GENERATED WITH ENTRY ORDINALS RELATIVE TO THE BASE ADDRESS OF THE TABLE, SHOULD USE THE LOC PSEUDO-OP AS SHOWN IN THE FOLLOWING EXAMPLE:

TFCN	BSS	0	TABLE ENTRY
	LOC	0	
	CON	RNM	FIRST ENTRY
	CON	ACF	SECOND ENTRY
	.		
	.		
	CON	VSN	LAST ENTRY
	LOC	*0	
TFCNL	EQU	*-TFCN	TABLE LENGTH

WHERE TABLES ARE DESCRIBED, THEY ARE DEFINED SO THEY CAN BE PROCESSED BY THE 'DOCUMENTATION TABLE GENERATOR'. A DESCRIPTION OF THIS FORMAT IS FOUND IN THE EXTERNAL DOCUMENTATION FOR THE PROGRAM 'DOCHENT'.

77/11/21

3.4.4 DIRECT CELL USE

DIRECT CELLS ARE DEFINED USING ONE OF THE FOLLOWING METHODS:

1. A SINGLE CELL:

XX	EQU	N	DESCRIPTION
----	-----	---	-------------

2. MULTIPLE CELLS:

XX	EQU	N - M	DESCRIPTION
----	-----	-------	-------------

3. CONTIGUOUS CELLS:

	LOC	N	
XX	BSS	1	DESCRIPTION
YY	BSS	5	DESCRIPTION
	.		
	.		
	.		
ZZ	BSS	1	DESCRIPTION
	LOC	+0	

WHERE:

- XX = THE TAG FOR THE CELL
- YY = THE TAG FOR THE CELL
- ZZ = THE TAG FOR THE CELL
- N = LOCATION OF THE CELL (OR FIRST CELL)
- M = LOCATION OF THE LAST CELL

MULTIPLE DEFINITIONS OF DIRECT CELLS SHOULD BE AVOIDED.

THE FIRST FEW DIRECT CELLS IN THE PPU SHOULD NOT BE USED FOR DATA WHICH IS CRITICAL TO DEBUGGING. THE DEADSTART DUMP PROCESS DESTROYS THE CONTENTS OF THESE LOCATIONS:

- NOS T0 - T3
- NOS/BE D.20 - D.24

3.4.5 BUFFER DEFINITIONS

BUFFERS AND WORKING STORAGE AREAS ARE DEFINED USING EQU STATEMENTS (RATHER THAN BSS AND BSSZ) TO AVOID UNNECESSARY LOADING OF THE BUFFER AREAS. THIS APPLIES TO CPU AND PPU CODE.

	USE	BUFFERS
IBUF	EQU	*
OBUF	EQU	IBUF+IBUFL

3.5 DATA/CODE NAMING TERMINOLOGY

3.5.1 USE OF CONDITION TERMINOLOGY

THE FOLLOWING TERMS ARE USED TO DESCRIBE THE CONDITION OF BITS USED AS FLAGS OR SWITCHES. THE SELECTED TERMS SHOULD BE USED CONSISTENTLY WITHIN A PROGRAM.

1	0
ON	OFF
TRUE	FALSE
SET	CLEAR
NONZERO	ZERO
UP	DOWN

3.5.2 TAGS WITHIN SUBROUTINES

EACH SUBROUTINE (MAIN LOOP, PRIMARY SUBROUTINE OR SECONDARY SUBROUTINE) HAS A MEANINGFUL THREE CHARACTER NAME WHICH IS DERIVED FROM THE TITLE OF THE SUBROUTINE (SEE SECTION 2.4).

TAGS USED FOR BRANCH INSTRUCTIONS ARE OF THE FORM:

XXXN

TAGS ON CODE WHICH IS ADDED LATER TO THE SUBROUTINE ARE OF THE FORM:

XXXN.N

TAGS THAT ARE INSERTED BETWEEN THE SUBR AND THE TAG XXXI BY CORRECTIVE CODE ARE OF THE FORM:

XXXO.N

TAGS ON STORAGE LOCATIONS (CONSTANTS, TEMPORARY STORAGE AND INSTRUCTION MODIFICATION) WITHIN A SUBROUTINE ARE OF THE FORM:

XXXX

WHERE:

- XXX - SUBROUTINE NAME
- XXXN - TAG PRECEDING AN ADDED ONE
- N - NUMBER FROM 1 TO 99 (IN CONSECUTIVE ORDER BEGINNING AT THE ENTRY POINT AND ENDING AT THE EXIT POINT)
- A - LETTER FROM A TO Z AND AA TO ZZ (IN ALPHABETICAL ORDER AND EXCLUDING X)

TAGS OF THE FORM XXXN, XXXN.N, AND XXXA SHOULD NOT BE REFERENCED OUTSIDE OF SUBROUTINE XXX.

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

IF THE ABOVE RULES CANNOT BE FOLLOWED DUE TO TAG UNAVAILABILITY,  
THE ENTIRE SUBROUTINE WILL HAVE ITS TAGS RESEQUENCED.

### 3.5.3 TAGS ON DATA

#### 3.5.3.1 DIRECT CELLS

ALL LOCALLY DEFINED PPU DIRECT CELLS HAVE TWO-CHARACTER TAGS. (IN  
NOS ALL DIRECT CELLS HAVE TWO-CHARACTER TAGS.)

THE FOLLOWING TABLE DEFINES THE PREASSIGNED DIRECT CELL USAGE:

CONTENTS	NOS NAME	NOS LOCATION	NOS/BE NAME	NOS/BE LOCATION
CONTROL POINT RA	RA	55	D.RA	55
CONTROL POINT FL	FL	56	D.FL	56
1	ON	70	D.PPONE	70
100	HN	71	D.HN	71
1000	TH	72	D.TH	72
3	TR	73	D.TR	73
CPA ADDRESS	CP	74	D.CPAD	74
PPU INPUT REGISTER ADDRESS	IA	75	D.PPIR	74
PPU OUTPUT REGISTER ADDRESS	OA	76	--	--
PPU MESSAGE BUFFER ADDRESS	MA	77	D.PPMES1	75
PPU STATUS WORD ADDRESS	--	--	D.PPSTAT	77

#### 3.5.3.2 CODE CONTROL NAMES

NAMES USED FOR ASSEMBLY OPTIONS, MICROS AND TO CONTROL CODE  
GENERATION ARE FIVE OR MORE CHARACTERS LONG.

#### 3.5.3.3 TABLE NAMES

TAGS USED ON TABLES HAVE THE FORM:

TXXX

TAGS USED FOR TABLE LENGTHS HAVE THE FORM:

TXXXL

TAGS USED FOR TABLE ENTRY LENGTHS HAVE THE FORM:

TXXXE

WHERE:

XXX=3 CHARACTER TABLE NAME

3.5.3.4 GLOBAL MEMORY LOCATIONS

NAMES USED FOR GLOBAL MEMORY LOCATIONS (LOCATIONS REFERENCED BY MORE THAN ONE SUBROUTINE) ARE FOUR CHARACTERS LONG.

3.5.4 CONSTANTS USED AS INSTRUCTIONS

FOUR LETTER TAG NAMES SHOULD END IN 'I' IF (AND ONLY IF) THE TAG NAME IS DEFINING AN INSTRUCTION.

FOR EXAMPLE:

```
LJMI EQU 100B *LJM* INSTRUCTION
SHNI EQU 1000B *SHN* INSTRUCTION
```

CONSTANTS USED AS INSTRUCTIONS SHOULD BE DEFINED AND USED EVEN THOUGH THE CONTENTS OF A DIRECT CELL IS BEING USED TO MODIFY AN INSTRUCTION.

EXAMPLE:

THE DIRECT CELLS HN AND TH (SEE SECTION 3.5.3.1) MAY BE USED TO MODIFY LJM AND SHN INSTRUCTIONS. THE CONSTANT USED AS AN INSTRUCTION SHOULD BE USED AS FOLLOWS:

```
      LDD      TH+SHNI+0
      LMN      1
      STM      TAGA
      .
      .
      .
TAGA  SHN      0
*     SHN      1          (COMMENT)
```

3.5.5 IF/ELSE/ENDIF SYMBOLS

SYMBOLS USED ON IF, ELSE, ENDF AND SKIP PSEUDO INSTRUCTIONS ARE OF THE FORM:

.A

WHERE:

A = LETTER FROM A TO Z

3.5.6 NON-LOCAL MACRO SYMBOLS

TO AVOID CONFLICTS WITH USER CODE, NON-LOCAL SYMBOLS DEFINED WITHIN MACROS ARE OF THE FORM:

.N

WHERE:

N = NUMBER FROM 1 TO 99

### 3.5.7 LOW CORE LOCATION SYMBOLS

SYMBOLS THAT ARE USED TO DEFINE LOCATIONS IN LOW CORE (CMR) ARE OF THE FORM:

XXXL

### 3.5.8 CONTROL POINT AREA LOCATION SYMBOLS

SYMBOLS THAT ARE USED FOR DEFINING LOCATIONS IN THE CONTROL POINT AREA ARE OF THE FORM:

XXXM

### 3.5.9 MONITOR FUNCTION SYMBOLS

SYMBOLS USED FOR MONITOR FUNCTION REQUESTS ARE OF THE FORM:

XXXM

## 3.6 PSEUDO-INSTRUCTION USE, FORMAT AND PARAMETERS

### 3.6.1 BASE AND POST RADIX USE

THE BASE DECIMAL PSEUDO-OP IS USED IN ALL CPU CODE. THE BASE MIXED PSEUDO-OP IS USED IN ALL PPU CODE. POST RADIX IS ALLOWED FOR DATA FORMATS OTHER THAN OCTAL AND DECIMAL; IN SPECIFYING TIMING LOOPS WHERE DECIMAL VALUES ARE MORE MEANINGFUL TO HUMANS; AND WHERE EXTERNAL SPECIFICATIONS SUCH AS ANSI OR CORPORATE STANDARDS DICTATE THE USE OF A PARTICULAR FORMAT.

```
-----  
|                               -NOS/BE ONLY-                               |  
|  
| BASE MIXED IS USED FOR COMPLETE, NEWLY WRITTEN PPU PROGRAMS.          |  
| CHANGES TO EXISTING PROGRAMS CONFORM TO THE EXISTING BASE.          |  
-----
```

### 3.6.2 EXTERNAL REFERENCES

THE EXT PSEUDO-OP IS NOT USED. ALL REFERENCES TO EXTERNAL NAMES USE THE FORM =XNAME. IN AN ABSOLUTE ASSEMBLY, REFERENCES TO LOCATIONS IN OTHER OVERLAYS USE THE FORM =XNAME.

3.6.3 SPACE CARD FORMAT

THE FORMAT OF THE SPACE PSEUDO INSTRUCTION IS:

TAG SPACE 4,N

WHERE:

TAG =TABLE, MACRO OR SUBROUTINE NAME  
 N =STATEMENT COUNT

THE STATEMENT COUNT IS A MULTIPLE OF 5 THAT IS GREATER OR EQUAL TO 10. IT SHOULD BE LARGE ENOUGH TO AVOID BREAKING DOCUMENTATION ACROSS PAGE BOUNDARIES.

3.6.4 CONDITIONAL CODE

NUMERIC SKIP COUNTS ARE NOT USED WITH IF, IFC, ELSE, ETC., BECAUSE THIS MAKES CODE DIFFICULT TO READ (ESPECIALLY WHEN THE SKIPPED LINES ARE NOT LISTED). ENDF SHOULD BE USED INSTEAD. AN EXCEPTION IS ALLOWED FOR SYSTEMS TEXTS WHERE SPACE IS CRITICAL.

CONDITIONAL SEQUENCES SHOULD BE BRACKETED WITH LABELS (REFER TO SECTION 3.5.5) WHICH ALLOWS THEM TO BE EASILY SPOTTED AND MATCHED IN LISTINGS.

WHEN EITHER END OF A SEQUENCE OF CONDITIONAL CODE OCCURS AT A BREAK IN THE LISTING (SPACE, TITLE, OR BLANK LINES), THE SPACING CARDS SHOULD BE PLACED SO THAT SPACING WILL BE CORRECT WHETHER THE TEST IS TRUE OR FALSE. USUALLY THIS MEANS MOVING THE SPACING OUTSIDE THE CONDITIONAL CODE.

EXAMPLE:

```

    .
    .
    .
    EQ TAG1 CONTINUE
    (BLANK CARD) (OUTSIDE CONDITIONAL CODE)
.A IFC EQ,+'SYSTEM'+SCOPE+
TAG3 CONTROLC TAGA,R READ CONTROL CARD
EQ TAGX RETURN
    (BLANK CARD)
TAGA CON 10B CONTROLC READ FUNCTION
.A ELSE
TAG3 CONTROL CCCR READ CONTROL CARD
EQ TAGX RETURN
.A ENDF
ABC SPACE 4,10 (OUTSIDE CONDITIONAL CODE)
    
```



3.6.5 MACROS

MACRO DEFINITIONS SHOULD INCLUDE A DESCRIPTION OF HOW THE MACRO IS CALLED AND A DESCRIPTION OF ALL FORMAL PARAMETERS.

THE PURGMAC PSUEDO INSTRUCTION SHOULD BE USED TO DISABLE ANY PREVIOUS MACRO DEFINITIONS OF THE SAME NAME.

NON-LOCAL SYMBOL DEFINITIONS SHOULD BE OF THE FORM .N (SEE SECTION 3.5.7).

TO AVOID TERMINATING MULTIPLE MACRO DEFINITIONS, THE ENDM INSTRUCTION SHOULD BE LABELED WITH THE MACRO NAME.

3.7 TESTS FOR OVERFLOW

CPU AND PPU PROGRAMS SHOULD CONTAIN ASSEMBLY CHECKS FOR CERTAIN TYPES OF OVERFLOW CONDITIONS. THE FOLLOWING POINTS SHOULD BE CONSIDERED WHEN MAKING THE CHECKS.

PPU PROGRAMS AND OVERLAYS ARE GENERATED BY COMPASS IN MULTIPLES OF 5 PPU BYTES (1 CM WORD). THEREFORE, WHEN READING AN OVERLAY FROM CENTRAL MEMORY TO PPU MEMORY, MORE PPU BYTES MAY BE DESTROYED THAN THE ACTUAL NUMBER OF BYTES OF PPU CODE.

OVERLAYS LOADED FROM MASS STORAGE TO PPU MEMORY COME IN MULTIPLIES OF 500 PPU BYTES. AT LEAST 5 BYTES OF THE LAST PRU ARE REQUIRED TO REPRESENT END OF RECORD WHICH CAN INCREASE THE SIZE OF THE OVERLAY BY ONE PRU (500 BYTES).

CARE SHOULD BE TAKEN TO ENSURE THAT THE LITERALS BLOCK HAS BEEN DEFINED BEFORE CHECKING FOR THE OVERFLOW CONDITIONS.

3.7.1 CM LOADS

ALL PPU PROGRAMS INCLUDE A TEST FOR THE AMOUNT OF CORE REMAINING AFTER A CM LOAD AS SHOWN IN THE FOLLOWING EXAMPLE:

	USE	OVERFLOW	
XXX	BSS	0	
	ERRNG	7772-XXX	PPU MEMORY OVERFLOW

WHERE:

XXX -TAG FOR THE LAST LOCATION DEFINED

3.7.2 TABLE OVERFLOW

IF A PPU PROGRAM USES MORE STORAGE THAN IT DECLARES, ITS LENGTH IS CHECKED AS SHOWN IN THE FOLLOWING EXAMPLE:

	USE	OVERFLOW	
XXX	BSS	0	
XXXE	EQU	XXX+XXXL	
	ERRNG	7777-XXXE	CHECK FOR OVERFLOW

WHERE:

XXX =TAG FOR THE LAST LOCATION DEFINED  
 XXXL=LENGTH OF UNDECLARED SPACE  
 XXXE=END OF SPACE USED

### 3.7.3 MASS STORAGE LOADS

```

-----
I                               -NOS ONLY-
I
I A TEST WILL BE INCLUDED IN EACH PPU PROGRAM WHICH MAY RESIDE
I ON MASS STORAGE. THIS TEST WILL PROTECT AGAINST A LOAD WHICH
I EXCEEDS THE END OF MEMORY IN THE PPU CAUSING WRAP AROUND. THE
I 'OVERFLOW' MACRO IS AVAILABLE IN COMPMAC FOR THIS OPERATION.
-----
    
```

### 3.7.4 OVERLAY LOADS

PROGRAMS CALLING OVERLAYS SHOULD TEST FOR MEMORY OVERFLOW WITH THE FOLLOWING TEST:

ERRNG (LWA+1)-(LOAD ADDR)-LEN COMMENT

WHERE:

LWA+1 = FIRST BYTE NOT TO BE DESTROYED BY THE ZERO  
 LEVEL OVERLAY  
 LOAD ADDR = ADDRESS WHERE THE OVERLAY IS LOADED  
 LEN = LENGTH OF OVERLAY

THE LENGTH OF AN OVERLAY IS DEFINED TO BE THE NUMBER OF BYTES DESTROYED BY THE OVERLAY DURING LOADING AND EXECUTION. THE OVERLAY SHOULD ALSO CONTAIN A TEST TO ENSURE THAT IT DOES NOT EXCEED ITS DEFINED LENGTH. THE OVERLAY LENGTH CAN BE ADJUSTED TO A HIGHER OR SMALLER VALUE AS LONG AS NONE OF THE TESTS FAIL.

### 3.8 RELOCATABLE CPU CODE

THE FIRST WORD OF A RELOCATABLE CPU PROGRAM SHOULD BE OF THE FORMAT:

42/OLDECK, 18/ADDR

THIS WORD IS CAN BE USED TO LOCATE THE FIRST WORD ADDRESS AND ENTRY POINT OF A ROUTINE IN A CM DUMP.

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

WHERE:

DECK = DECK NAME  
ADDR = ENTRY ADDRESS OF PROGRAM

THE CONTENTS OF AO MUST NEVER BE USED IN A LIBRARY LEVEL ROUTINE  
UNLESS IT IS SAVED AND RESTORED. AO IS USED BY FTM AS A BASE  
REGISTER FOR FORMAL PARAMETERS IN SUBROUTINE LINKAGES.

4.0 MISCELLANEOUS

4.1 PROGRAM NAMING

4.1.1 LENGTH OF PROGRAM NAME

PERIPHERAL PROCESSOR PROGRAM NAMES ARE 3 CHARACTERS LONG.

CENTRAL PROCESSOR PROGRAM NAMES ARE 4 TO 7 CHARACTERS LONG.

4.1.2 RESERVED NAMES

THE FOLLOWING PPU PROGRAM NAMES ARE RESERVED OR PRESENTLY DEFINED FOR USE (X MEANS ANY CHARACTER LEGAL IN A PPU PROGRAM NAME AND N MEANS ANY NUMBER BETWEEN 0 - 9):

UXX	RESERVED FOR INSTALLATIONS
NUX	RESERVED FOR INSTALLATIONS
9AA-9T9	RESERVED FOR SYSTEM USE
9VA-9Z9	RESERVED FOR SYSTEM USE
90A-929	RESERVED FOR DIAGNOSTICS
93A-939	RESERVED FOR SYSTEM USE

```

-----
I           -NOS ONLY-
I
I
I
I      6XX      CALLABLE MASS STORAGE DRIVERS
I      7XX      MASS STORAGE ERROR PROCESSING OVERLAYS
I      9AA-9D9  DSD OVERLAYS
I      9EA-9F9  DIS OVERLAYS
I      9GA-9G9  D26 OVERLAYS
I      OXX      LOCATION FREE OVERLAYS
I      OCX      CONTROLWARE IDENTIFICATION PROCESSORS
I      OPX      PACK NUMBER IDENTIFICATION PROCESSORS
I      OTX      AUTOMATIC TRACK FLAW PROCESSORS
I
I      UXXL     PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I      UXXM     PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I      UXXP     PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I      UXXW     PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I
-----
    
```

I		-NOS/BE ONLY--
I		
I		
I	OFA-OF9	RESERVED FOR SYSTEM USE
I	OZA-OZ9	RESERVED FOR SYSTEM USE
I	1ZA-1Z9	INTERCOM DRIVERS
I	8XX	RESERVED FOR SYSTEM USE
I		

#### 4.1.3 COMMON DECK NAMES

COMMON DECK NAMES ARE SEVEN CHARACTERS IN LENGTH AND IN THE FOLLOWING FORM:

COMXAAA

WHERE:

- AAA = THE NAME OF THE ROUTINE OR A SYMBOLIC NAME IF NO ROUTINE NAME.
- X = ONE OF THE FOLLOWING COMMON DECK INDICATORS:
  - C = CPU CODE
  - P = PPU CODE
  - S = SUBSYSTEM TEXT SYMBOLS, CONSTANTS ETC.
  - D = DISPLAY DRIVER CODE
  - T = TABLES
  - M = MASS STORAGE ERROR EQUIVALENTS
  - B = DATA MANAGER
  - K = TRANSACTION SUBSYSTEM
  - I = INITIALIZATION

#### 4.2 CODE TRANSMITTAL RULES

CODE WHICH IS TO BE INTEGRATED INTO A SYSTEM BUILT FOR EVENTUAL RELEASE TO THE FIELD IS IDENTIFIED AND FORMATTED AS DESCRIBED IN THIS SECTION.

#### 4.2.1 GENERAL RULES

EACH EXTERNAL PSR BEING ANSWERED HAS A CORRESPONDING CORRECTIVE CODE IDENTIFIER (TO BE DESCRIBED LATER). CORRECTIVE CODE ANSWERING OTHER PSRS IS NOT INCLUDED IN THE MODIFICATION UNDER THIS IDENTIFIER. EXCEPTIONS ARE ALLOWED WHERE REQUIRED BY INTERRELATED MODIFICATIONS FOR SEVERAL PSRS.

CORRECTIONS ARE PLACED IN ASCENDING ORDER; I. E., THE CORRECTIONS ARE SORTED IN THE SAME ORDER THAT THE LINES BEING CORRECTED APPEAR ON THE PROGRAM LIBRARY. IF A SINGLE MODIFICATION CHANGES SEVERAL DECKS, THEN THE CORRECTIONS ARE ALSO SORTED IN THE ORDER THAT THE DECKS APPEAR ON THE PROGRAM LIBRARY.

CORRECTIONS MODIFYING LINES WITH PREVIOUSLY MODIFIED SEQUENCE NUMBERS INCLUDE THE LINE NUMBER OF THE NEAREST PRECEDING ORIGINAL LINE IN PARENTHESIS IN THE COMMENTS FIELD OF THE MODIFY DIRECTIVE.

#### 4.2.2 NOS MODSET FORMAT

##### 4.2.2.1 MODSET IDENTIFIER

THE NOS MODSET IDENTIFIER CONSISTS OF THREE TO FIVE ALPHANUMERIC CHARACTERS WHICH ARE EXTRACTED FROM THE DECK NAME AS FOLLOWS:

1. FOR COMMON DECKS THAT BEGIN WITH 'COM' USE THE LAST FOUR CHARACTERS OF THE NAME.
2. FOR PPU PROGRAMS USE THE THREE CHARACTER PROGRAM NAME.
3. ALL OTHER DECKS USE THE FIRST FIVE CHARACTERS OF THE DECK NAME; IF THE DECK NAME IS LESS THAN SIX CHARACTERS USE THE ENTIRE DECK NAME.
4. MODIFICATIONS WHICH INVOLVE MULTIPLE DECKS ARE GIVEN THE MODSET IDENTIFIER 'KRANNN'.
5. MODIFICATIONS WHICH ONLY CORRECT DOCUMENTATION WITHIN A DECK ARE LUMPED TOGETHER FOR EACH CORRECTIVE CODE RELEASE AND GIVEN THE MODSET IDENTIFIER 'DOKNN'. THIS DOES NOT INCLUDE LINES OF CODE WHICH HAVE DOCUMENTATION CHANGES IN THEM.
6. IF A MODSET IS ADDING A NEW FEATURE, THE FEATURE IDENTIFIER FOR EACH DECK MODIFIED IS OBTAINED FROM NOS CODE CONTROL.
7. UPON RELEASE OF THE SYSTEM, A 'COMPOSITE' MODSET IS GENERATED FROM ALL FEATURE CODE WHICH IS TO BE RELEASED. THE NAMES INCLUDE:

K21000 - KRONOS 2.1 OS  
K22000 - KRONOS 2.1.2/NOS 1.0 OS  
N11000 - NOS 1.1 OS  
N12000 - NOS 1.2 OS

FUTURE FEATURE CODE MODSETS WILL FOLLOW THE SAME FORMAT.

77/11/21

4.2.2.2 MODSET SEQUENCE NUMBER

THE MODSET SEQUENCE NUMBER IS A ONE TO THREE DIGIT NUMBER APPENDED TO THE MODSET IDENTIFIER.

4.2.2.3 MODSET CORRECTION LETTER

WHEN A MODSET IS CORRECTING A PREVIOUS MODSET, ONE ALPHABETIC CHARACTER (STARTING WITH A) WILL BE APPENDED TO THE SEQUENCE NUMBER. WHENEVER A MODSET CORRECTION LETTER OF 'B' OR ABOVE IS REQUIRED, THE COMMENTS HEADER OF THE MODSET MUST INDICATE WHICH PREVIOUS MODSET IS BEING CORRECTED.

4.2.2.4 OVERFLOW

WHENEVER A MODSET IDENTIFIER USING THE ABOVE CONVENTIONS EXCEEDS SEVEN CHARACTERS, TRUNCATE THE LAST CHARACTER(S) OF THE DECK NAME TO REDUCE THE IDENTIFIER TO SEVEN CHARACTERS.

4.2.2.5 MODSET EXAMPLE

THE FOLLOWING FORMAT IS USED FOR CORRECTIVE CODE MODSETS:

1	11	18	30	(COLUMN NUMBERS)
+-----+-----+-----+-----+				
IDENT				
*IDENT	IDENT	INITIALS.	YY/MM/DD.	
*/	****	SYSTEM.		
*/	****	PSR NUMBER.		
*/	*****	COMMENTS.		
*/	(CONTINUATION OF COMMENTS).			
*DECK	DECKNAME			
*I,	SEQUENCE NUMBER			
*D,	SEQUENCE NUMBER			
*D,	MODNAME.	SEQUENCE NUMBER	(NEAREST ORIGINAL SEQ. NO.)	
*EDIT	DECKNAME		(IF COMMON DECK)	
*/	END OF MODSET.			

WHERE:

- IDENT - MODSET IDENTIFIER.
- YY/MM/DD - DATE OF LAST MODSET CHANGE.
- SYSTEM - NAME OF SYSTEM IN WHICH THE MODSET WILL BE RELEASED. (IE - NOS 1.2 OS. OR NOS 2.0 OS.)

COMMENTS ARE TO BE INCLUDED TO INDICATE WHAT THE CORRECTIVE CODE IS FIXING. THE \*READPL DIRECTIVE IS NOT USED.

77/11/21

#### 4.2.3 NOS/BE CORRECTION SET FORMAT

##### 4.2.3.1 CORRECTION SET IDENTIFIER

THE IDENTIFIER USED FOR PSR CORRECTIONS IS THE EXTERNAL PSR NUMBER. WHEN INTERNAL PSRS ARE ANSWERED, AN EXTERNAL PSR NUMBER IS OBTAINED BEFORE SUBMITTING THE CODE FOR INTEGRATION. THE IDENTIFIERS USED FOR FEATURE CODE WHICH MODIFIES EXISTING DECKS ARE OF THE FORM:

FNNNAA

WHERE:

NNNN = THE FOUR DIGIT FEATURE NUMBER OBTAINED FROM THE SOFTWARE IMPLEMENTATION PLAN.

AA = TWO ALPHABETICAL CHARACTERS ASSIGNED BY THE PROJECT LEADER FOR EACH DECK MODIFIED.

FEATURE CODE WHICH ADDS NEW DECKS FOLLOW THE PROCEDURE IN SECTION 4.2.3.4. CORRECTIVE CODE AGAINST FEATURES DURING THE I AND E CYCLE USE IDENTIFIERS OF THE FORM:

CNNNNYY

WHERE:

NNNN = THE FOUR DIGIT FEATURE NUMBER BEING CORRECTED.

YY = TWO ALPHABETICAL CHARACTERS ASSIGNED BY THE PROJECT LEADER.

##### 4.2.3.2 CORRECTION HISTORY

EACH CORRECTION SET INCLUDES CARDS TO BE INSERTED IN THE HISTORY DECK WHICH CONTAIN A DESCRIPTION OF THE CHANGE BEING MADE (INCLUDING THE PROBLEM DESCRIPTION FOR PSRS), THE DATE OF THE MODIFICATION, AND A LIST OF THE DECKS MODIFIED. THESE CARDS APPEAR FOLLOWING THE IDENT CARD AND BEFORE THE FIRST CORRECTION TO THE CODE.

##### 4.2.3.3 CORRECTION APPLICABILITY

IF CODE IS APPLICABLE TO MORE THAN ONE VERSION OF A PARTICULAR PRODUCT, SUCH APPLICABILITY IS SHOWN ON AN UPDATE COMMENT CARD PLACED IMMEDIATELY AFTER THE IDENT CARD.



77/11/21

#### 4.2.3.4 NEW DECKS

THE RECOMMENDED WAY OF ADDING A NEW DECK OR COMMON DECK IS AS FOLLOWS:

```
*IDENT NAME
*BEFORE NEXTDECK.1
*DECK NAME
  OR
*COMDECK NAME
```

THE USE OF IDENTICAL NAMES FOR IDENT AND DECK PRODUCES PROPER SEQUENCE NUMBERS ON THE RESULTING PL.

#### 4.2.3.5 SPECIAL UPDATE DIRECTIVES

THE UPDATE DIRECTIVES ADDFILE, COPY, AND DECLARE ARE NOT USED IN PSR CORRECTION SETS.

#### 4.2.3.6 CORRECTION SET EXAMPLE

```
*IDENT IDENT
*/ CORRECTION APPLICABILITY (OPTIONAL)
*B,HISTORY.2
  IDENT DESCRIPTION OF PROBLEM AND CORRECTION
          (CONTINUATION OF DESCRIPTION)
          YY/MM/DD DECKS MODIFIED
*I,SEQUENCE NUMBER
*D,SEQUENCE NUMBER (NEAREST ORIGINAL LINE NO.)
  .
  .
  .
*C DECKS MODIFIED
```

### 4.3 INTERFACE CONSIDERATIONS

#### 4.3.1 SYSTEM SUPPLIED INTERFACES

ALL INTERACTIONS BETWEEN PROGRAMS (CPU AND PPU) AND THE SYSTEM USE SYSTEM-SUPPLIED MACROS, LINKAGE LABELS OR COMMON DECKS. IN PPU PROGRAMS THE SYSTEM DEFINED DIRECT CELLS ARE ONLY USED AS DEFINED BY THE SYSTEM. (SEE SECTION 3.5.3.1)

#### 4.3.2 PARAMETER VALIDATION

EACH PARAMETER PASSED BETWEEN PROGRAMS WILL BE VALIDATED OR PROCESSED IN A WAY THAT PROTECTS THE PROGRAM FROM UNCONTROLLED ACTIONS CAUSED BY UNEXPECTED VALUES.

#### 4.3.3 MEMORY ACCESS

PPU PROGRAMS WHICH ACCESS THE FIELD LENGTH OF A JOB WILL ENSURE THAT NO COMBINATION OF PARAMETERS, ERRORS, ETC. WILL CAUSE ACCESS TO AN ADDRESS OUTSIDE OF THAT FIELD LENGTH. ADDRESSES SHOULD BE VALIDATED PRIOR TO USING THEM FOR A CM READ OR WRITE TO AVOID REFERENCING AREAS OF MEMORY OUTSIDE OF THE CONTROL POINTS FIELD LENGTH.

#### 4.3.4 SECURITY

PROGRAMS THAT PERFORM PRIVILEGED FUNCTIONS MUST ENSURE THAT THE REQUESTER OF THE FUNCTION HAS BEEN GIVEN PERMISSION BY THE SYSTEM TO USE THE FUNCTION. THIS ALSO APPLIES TO THE USE OF SPECIAL DEVICE DRIVERS, WHICH COULD BE CALLED ACCIDENTALLY OR MALICIOUSLY BY UNAUTHORIZED USERS. WHERE COMMON DECKS ARE AVAILABLE TO CHECK SECURITY OR PRIVILEGES, THEY SHOULD BE USED RATHER THAN LOCALLY WRITTEN CODE.

#### 4.3.5 RESERVATIONS AND INTERLOCKS

RESERVATIONS AND INTERLOCKS ARE ONLY USED AS DEFINED BY THE SYSTEM AND ARE RELEASED AS SOON AS POSSIBLE. NON-ESSENTIAL CODE IS NOT EXECUTED WHILE A RESERVATION OR INTERLOCK IS IN EFFECT.

IN CASES WHERE A RESERVATION REJECT COULD OCCUR, THE PROGRAM WILL:

1. CONTROL THE RATE OF RESERVATION RE-ISSUE.
2. DETECT AND RESPOND TO ERROR CONDITIONS.
3. PROTECT AGAINST STORAGE MOVE LOCKUP.

PROGRAMS WHICH USE RESERVATIONS AND INTERLOCKS WILL ENSURE THAT THE CONDITIONS ARE RELEASED NO MATTER WHAT PROGRAM PATH IS TAKEN.

WHEN MULTIPLE INTERLOCKS ARE REQUIRED, ALL PROGRAMS IN THE OPERATING SYSTEM MUST REQUEST THE INTERLOCKS IN THE SAME ORDER. WHEN A REJECT OCCURS WHEN ATTEMPTING TO OBTAIN SUCH INTERLOCKS, ALL RESERVATIONS HELD MUST BE RELEASED AND THE ENTIRE SEQUENCE OF INTERLOCKING MUST BEGIN AGAIN.

UNDER NOS, CARE MUST BE TAKEN TO NOT ISSUE DAYFILE MESSAGES, LOAD OVERLAYS, OR PAUSE WITH NON-DEDICATED CHANNEL(S) RESERVED.

#### 4.3.6 DOCUMENTING HARDWARE DEFICIENCIES

INSTRUCTIONS WHICH ARE INCLUDED TO COMPENSATE FOR HARDWARE DEFICIENCIES ARE DOCUMENTED WITH A BRIEF DESCRIPTION OR IDENTIFICATION OF THE DEFICIENCY.

77/11/21

#### 4.4 MODULARITY

##### 4.4.1 PPU OVERLAYS

PPU PROGRAMS USE OVERLAYS WHENEVER POSSIBLE TO IMPROVE THE LONG RANGE PERFORMANCE OF THE SYSTEM. OVERLAYS ARE USED FOR ANY SELDOM EXECUTED CODE SUCH AS ERROR HANDLING AND SELDOM USED FEATURES.

##### 4.4.2 HELPER PPU-S

HELPER PPUS ARE NOT USED UNLESS NO OTHER METHOD EXISTS. THE AVAILABILITY OF PPUS WHEN NEEDED SHOULD BE CONSIDERED.

##### 4.4.3 COMMON DECKS

A COMMON DECK CONTAINING EXECUTABLE CODE CONSISTS OF ONE OR MORE SUBROUTINES (AS DEFINED IN SECTIONS 3.2.6 AND 3.2.7) AND ANY ASSOCIATED DATA STORAGE AREAS. THE PURPOSE OF COMMON DECKS IS TO INCREASE EFFICIENCY IN WRITING CODE, ENSURE UNIFORMITY OF CODE AND DECREASE DEBUGGING TIME. COMMON DECKS CONTAIN OPTIMIZED CODE AND EXTERNAL INTERFACES THAT ARE GENERALIZED TO FACILITATE THEIR USE IN FUTURE PROGRAMS. THESE DECKS SHOULD BE USED IN PREFERENCE TO LOCAL CODE WHENEVER POSSIBLE.

COMMON DECKS WHICH CONTAIN ONLY MACROS ARE NOT QUALIFIED. 'S' TYPE COMMON DECKS ARE NOT QUALIFIED BY THE QUAL PSEUDO-OP WITHIN THE COMMON DECK. IF AN 'S' TYPE COMMON DECK IS QUALIFIED EXTERNALLY, THE QUALIFIER IS THE THREE CHARACTER NAME OF THE ROUTINE. FOR EXAMPLE:

COMSAAA (WHERE AAA IS THE QUALIFIER)

#### 4.5 DAYFILE.MESSAGES

```
-----  
I          -NOS ONLY-  
I  
I DAYFILE MESSAGES ISSUED TO THE USER OR SYSTEM DAYFILE BEGIN  
I WITH A BLANK CHARACTER AND END WITH A PERIOD. DAYFILE  
I MESSAGES SHOULD NOT EXCEED 40 CHARACTERS.  
-----
```

#### 4.6 UNHANGABLE.CHANNEL.CODE

TO AVOID CHANNEL HANGS, BIT 2\*\*5 IS SET ON SOME PPU CHANNEL INSTRUCTIONS. THIS SHOULD ONLY BE USED WHEN UNDESIRABLE SIDE EFFECTS WILL NOT RESULT AND WHERE IT IS POSSIBLE TO TAKE CORRECTIVE ACTION. (FOR EXAMPLE: DISCONNECTING AN INACTIVE CHANNEL WILL NOT RESULT IN UNDESIRABLE EFFECTS.) BIT 2\*\*5 SHOULD

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

77/11/21

NOT BE USED WHEN UNPREDICTABLE RESULTS MAY OCCUR. BIT 2\*\*5 IS NOT  
USED WITH CHANNEL 15.

APPENDIX A.1. ABBREVIATIONS

STANDARD INDUSTRY ABBREVIATIONS MAY BE USED EVEN THOUGH THEY ARE NOT INCLUDED IN THE FOLLOWING APPENDIX.

A.1 GENERAL ABBREVIATIONS

BOI	BEGINNING OF INFORMATION
CLD	CENTRAL LIBRARY DIRECTORY
CM	CENTRAL MEMORY
CMM	COMMON MEMORY MANAGER
CMR	CENTRAL MEMORY RESIDENT
CP	CONTROL POINT
CPA	CONTROL POINT AREA ADDRESS
CPU	CENTRAL PROCESSING UNIT
CR	CARRIAGE RETURN
CW	CONTROL WORD
ECS	EXTENDED CORE STORAGE
EOF	END OF FILE
EOI	END OF INFORMATION
EOL	END OF LINE
EOR	END OF RECORD
EST	EQUIPMENT STATUS TABLE
ETX	END OF TEXT
FDX	FULL DUPLEX
FET	FILE ENVIRONMENT TABLE
FL	FIELD LENGTH
FLE	FIELD LENGTH FOR ECS
FNT	FILE NAME TABLE
FST	FILE STATUS TABLE
FWA	FIRST WORD ADDRESS
HDX	HALF DUPLEX
I/O	INPUT/OUTPUT
LFN	LOGICAL FILE NAME
LWA	LAST WORD ADDRESS
MMF	MULTI-MAINFRAME
MS	MASS STORAGE
MST	MASS STORAGE TABLE
MT	MAGNETIC TAPE
MUX	MULTIPLEXER
PF	PERMANENT FILE
PFN	PERMANENT FILE NAME
PLD	PERIPHERAL LIBRARY DIRECTORY
PPU	PERIPHERAL PROCESSING UNIT
PRU	PHYSICAL RECORD UNIT
RA	REFERENCE ADDRESS
RAE	REFERENCE ADDRESS FOR ECS
RCL	RESIDENT CENTRAL LIBRARY

77/11/21

RPL RESIDENT PERIPHERAL LIBRARY  
 RMS ROTATING MASS STORAGE  
 SCR STATUS AND CONTROL REGISTER  
 SECEDED SINGLE ERROR CORRECTION, DOUBLE ERROR DETECTION  
 SUBCP SUBCONTROL POINT  
 TRT TRACK RESERVATION TABLE  
 TTY TELETYPE

A.2 NETWORK HOST PRODUCTS ABBREVIATIONS

ABH APPLICATION BLOCK HEADER  
 ABL APPLICATION BLOCK LIMIT  
 ABN APPLICATION BLOCK NUMBER  
 ABT APPLICATION BLOCK TYPE  
 ACN APPLICATION CONNECTION NUMBER  
 ACT APPLICATION CHARACTER TYPE  
 ADR ADDRESS INFORMATION  
 ALN APPLICATION LIST NUMBER  
 CLA COMMUNICATIONS LINE ADAPTER  
 IBU INPUT BLOCK UNDELIVERABLE  
 IVT INTERACTIVE VIRTUAL TERMINAL  
 NFE NO FORMAT EFFECTORS  
 NPU NETWORK PROCESSING UNIT  
 PFC PRIMARY FUNCTION CODE  
 SFC SECONDARY FUNCTION CODE  
 SM SUPERVISORY MESSAGE  
 SMP SUPERVISORY MESSAGE PROCESSOR  
 TA TEXT AREA  
 TLC TEXT LENGTH CHARACTERS  
 TLMAX MAXIMUM LENGTH OF DATA MESSAGE BLOCK TEXT  
 TNAME TERMINAL NAME

A.3 ACRONYMS

AIP APPLICATION INTERFACE PROGRAM  
 IAF INTERACTIVE FACILITY  
 NAM NETWORK ACCESS METHOD  
 RBF REMOTE BATCH FACILITY  
 TAF TRANSACTION FACILITY  
 TIP TERMINAL INTERFACE PROGRAM

0000000 00000000000000000000 00046477002400757777 00072015000000245400 56400004145000000003  
 0000004 60207776000000035670 57206020576000000000 00010016000756330000 00072464000757060006 P D T GPM T= ,5 DL/ C  
 0000010 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 C, .P P. A N G,0 GT G.F F

0000020 000000000000000000760 23312324051555000000 00000000000103301700 000000000000000003033  
 0000024 00000000000176052621 00000000000000000000 000000000004244353544 00000000111021202736 G SYSTEM ACX0 XO  
 0000030 55344157353657363357 55424450334350344257 55513640525503310205 22553442375523501655 A EVQ 79229 I11QPH3  
 0000034 41353355031423105700 00000000000000000000 16172355344643123336 24502235025700000000 16.23.30. 79/08/17. (35) CYBER 174 S/N  
 0000040 000000000000000000001 00000000000000100434 00000000000100020303 01001227340000120000 620 CLSH. NOS 1-8J03T/R2B.  
 0000044 00010000002300220002 00000003002100000000 00000000000000000000 00000000000000000000 A HD1 A BCCA JW1 J  
 0000050 000000000000000005520 0000234257717455000 30766010301005743001 34131442341214610200 A S R B C Q  
 0000054 03363014010001777761 00000000000000000000 00000000000000000000 77777620300032000000 P BIU 0+/ X HXHE XA1KL71JL B  
 0000060 000000000000000045776 00000000160000001600 0000000000000046016 00043224000000000000 C3XLA A PX Z  
 0000064 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 D. N N D N DZT

0000074 000000000000000000000 00000000000000000000 04000000760000000000 00043132000000000436 D DYZ D3  
 0000100 000000150000000000007 00030000001100010000 00170000000000000000 00000000000000000000 M G C I A D  
 0000104 000000000000000000000 00000000000000000000 00103257000203417074 00000000000000000000 HZ. BC6  
 0000110 000000000000000130101 00070006000000000000 00000000000000000000 33134220000000000000 KAA G F OK7P  
 0000114 00000000600100040113 0000000000001600000 00000000000000000000 40301000000000000000 A DAK A 5XH  
 0000120 00000000600100000113 0000000000000020000 00000000000010000010 41350000000000000000 A AK P H 1162  
 0000124 000000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0000130 00000000560100060000 00000000000000252022 00165675000035131620 00000000023500007062  
 0000134 0000000000000000001023 00000000000000000000 00000000000000000000 00000000000000000000  
 0000140 000000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 ,A F UPR N, 2KNP B2  
 HS

0000174 000000000000000000000 00000000000000000000 00000000000000000000 06162414112324000000  
 0000200 00006613015424000000 0007600000001000001 00020500000053000000 70070000015152000000  
 0000204 000000000007121017002 00000000000135000040 0000200000001000100 00000000000542000074 KA=T G A A RE \$ G A(I)  
 0000210 400000000000000000000 00000000000000000000 00000000000000000000 000000000000000015243 5 QA B A2 5 B A A E7  
 0000214 000000000000000000000 00000000000176052567 24111520000500000135 00000000000000000054 A EU TAMP E A2 A)B  
 0000220 200000000000007600205 1101065555555000000 00777776000000000000 00000616000000040000 P G BEIAF FN D  
 0000224 00000000000176052620 00000000000000000000 00000000000000000000 000000000000000006500 A EVP  
 0000230 55160524271722135503 17161605032405045700 00000000000000000000 55270111241116075506 NETWORK CONNECTED. WAITING F  
 0000234 17225516052427172213 00000000000000000000 00000000000000000000 00000000000000000000 OR NETWORK  
 0000240 000000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000250 000000000000000000000 00000120071612504000 000305000000000000011 000000000000000000000 APGNJ/5 CE I  
 0000254 000000000000000000000 00000000000000000000 77777777777777777777 777777777700000000000  
 0000260 000077777770000000000 00000000000000000000 37770205377700000000 000000000000000000000 4 BE4  
 0000264 000000000000400000000 00000000000000000000 0000000000000130000 00000000000000377777 5 U K 4  
 0000270 000000000000000000000 62250000000000000000 00004000000701410152 00054035403500010001 5 GA6A) E5252 A A  
 0000274 010102140000000000000 77777777777777777777 77777777777777777777 77777777777777777777 AABL  
 0000300 000000000000000000000 40000000000000000000 00000000000000000000 00000000000000000000 5

0000310 000000000000000000000 00000000000000000000 00000000000000000000 3777777777777777000000 4  
 0000314 000000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000330 22052425221656110106 05305755000000000000 17162327513452550000 17162327513652550000 RETURN, IAFEX. ONSW(1) ONSW(3)  
 0000334 17162327514052550000 17162327514152550000 27101114055624222505 56141717205700000000 ONSW(5) ONSW(6) WHILE, TRUE, LOOP.  
 0000340 11010605305700000000 11010605303557550000 23131120561417172034 57550000000000000000 IAFEX. IAFEX2. SKIP, LOOP1.  
 0000344 05301124575500000000 11010605303557550000 05160411065614171720 34570000000000000000 EXIT. IAFEX2. ENDIF, LOOP1.  
 0000350 05160427561417172057 00000000000000000000 00000000000000000000 00000000000000000000 ENDW, LOOP.  
 0000354 000000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000400 00003206025562000000 00116600000001000001 00071400004310000000 70070000002603000000 ZFB I A A GL 8H G VC  
 0000404 00000000002577000003 00000000004307000003 00000400000001777016 00000000002612000000 U C BG C D A N VJ

0000410 77777770000000000000 00000000000000000000 77777770000000000000 00000000000000001011 HI  
0000414 00100434000176052566 00000000000000000574 24111520000500002601 00000000000000001750 HD1 A EU E T I M P E VA O/  
0000420 20000000000011660714 2401065555555555000000 0072777200000000000000 00000321000000010000 P I GLTAF CQ A  
0000424 000000000000176052616 0000000000000000000000 0000000000000000000000 0000000000000000000000 0000000000000000000000 A EVN X  
0000430 25011523565555553433 37435740424113251623 57000000010050263014 54157776340314043404 UCMS; 1048.576KUNS. A /VXL=M 1CLD1D  
0000434 37040712300335031012 00000000000000000000 11240123130000000000 000000000000035000 4DGJXC2CHJ ITASK 2  
0000440 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000450 00000000000000000000 00000051052173200000 31344100000000000365 00000000000000000000 (EQ P Y16 C  
0000454 00000000000000000000 00000000000000000000 77777777777777777777 77777777770000000000  
0000460 00007777770000000000 00000000000000000000 37771200377000000000 00000000000000000000 4 J 4  
0000464 00000000000040000000 00022033000000000000 00000000000000130000 00000000000000000016 5 BPO K N  
0000470 000000000000000004076 61070000000000000000 00000000001201630170 00014135413500010001 5 G JA A A6262 A A  
0000474 01010216000000000000 77777777777777777777 77777777777777777777 77777777777777777777 AABN  
0000500 01000022600037002360 00000000000000000000 00000000000000000000 00000000000000000000 A R 4 S  
0000504 00000000000000000000 0000314500000012423 00000000000000000000 00000000000000000000 Y+ ATS  
0000510 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
0000514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000530 47474747474747474747 47474747474747474747 47474747474747474747 47474747474700000000 \*\*\*\*\*  
0000534 47555555555555555555 55555555555555555555 55555555555555555555 55555555554700000000 \*  
0000540 47555555555555555555 24550155065503551455 23551055555555555555 55555555554700000000 \* T A F C L S H \*  
0000544 47555555555555555555 55555555555555555555 55555555555555555555 55555555554700000000 \*  
0000550 47474747474747474747 47474747474747474747 47474747474747474747 47474747474700000000 \*\*\*\*\*  
0000554 27221124052251172524 20252452000000000000 17162327514052550000 17162327513752550000 WRITER(OUTPUT) ONSW(5) ONSW(4)  
0000560 22061456343533333333 57550000000000000000 24010616011534570000 04150457000000000000 RFL,120000. TAFNAM1. DM0.  
0000564 04150451335636424242 42425255000000000000 24010616011535570000 07172417513552550000 DM0(0,377777) TAFNAM2. GOTO(2)  
0000570 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000600 00007415001537000000 0021660000001013313 00015500005131005132 70070000000204000303 M H4 Q A AOK A (Y (Z G BD CC  
0000604 000000000005127012706 00000000000164013025 00000600000001002561 00000000006745013025 (WAWF A AXU F A U +AXU  
0000610 77777777777777777775 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0000614 00000000000000000004 0000000000000011467 22031400000000000000 00000000000000000000 D AL RCL  
0000620 20020000000021660155 16011555555555000000 00747770000000000000 00000321000000010000 PB Q A NAM CQ A  
0000624 00000000000176052621 00000000000000000000 00000000000000000000 00000000000000000000 A EVQ  
0000630 14111605005514353755 55555556051656353756 01345616170405365555 00000000000000000000 LINE L24 ,EN,24,A1,NODE3  
0000634 43000002000000501510 00000000000000000000 22552324172201070555 51031552575555000000 8 B /MH R STORAGE (CM).  
0000640 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000650 00000000000000000000 00000134524644030000 0307244000000000056 00000000000000000000 A1)-9C CGT5 ,  
0000654 00000000000000000000 00000000000000000000 77777777777777777777 77777777770000000000  
0000660 00007777770000000000 00000000000000000000 37770350377700000000 00000000000000000000 4 C/4  
0000664 00000000000000000000 00000000000000000000 00000000000000130000 00000000000000000274  
0000670 00000000000000000000 60770000000000000000 0000000003401670170 00044114411400020001 K W\*  
0000674 01010220000000000000 77777777777777777777 77777777777777777777 77777777777777777777 AABP IA A D6L6L B A  
0000700 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000710 00000000000000000000 00000000000000000000 0000000000000000014 37777777777777000000 L4  
0000714 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0000730 20252207055116011506 01111450160152550000 47555555555555555555 55555555555555555523 PURGE(NAMFAIL/NA) \* S  
0000734 24012224552520551724 10052255000000000000 47555555555555555555 55555555555555555516 TART UP OTHER \* N  
0000740 05242717221355101723 24552022170722011523 00000000000000000000 07052451162354121702 ETWORK HOST PROGRAMS GET(INS=JOB  
0000744 16235603235412170203 23561626065412170216 26065624260654121702 24260652000000000000 NS,CS=JOBCS,NVF=JOBVNF,TVF=JOBTVF)  
0000750 22172524055116235604 03541116561724542331 17245255000000000000 22172524055103235604 ROUTE(INS,DC=IN,OT=SYOT) ROUTE(CS,D  
0000754 03541116561724542331 17245255000000000000 22172524055116260656 04035411165617245423 C=IN,OT=SYOT) ROUTE(NVF,DC=IN,OT=S  
0000760 31172452000000000000 22172524055124260656 04035411165617245423 31172452000000000000 YOT) ROUTE(TVF,DC=IN,OT=SYOT)



0000764	2206145136403333352	00000000000000000000	16112057000000000000	47555555555555555555	RFL(35000)	NIP.	*
0000770	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001000	00000000000000000000	00273500004156062002	00006400004057000001	70000000004057777776		W2 6,FPB	5. A 5.
0001004	00000000004057777776	00000000004057777776	00001000777776000001	00000000777776000000		5. 5. H	A
0001010	54772622300515364001	12345676543210123456	54772622300515364001	00000000000000000000	= VRXEM35AJ1, =ZHJ1, = VRXEM35A		
0001014	77776777777777777777	00001000000000000000	12345676543210123456	00000000000000000000	H J1, =ZHJ1,		
0001020	2000000000027350064	03253433010102000000	00010100000000000000	00077766010003270620	P W2 CUI0AAB AA G A CWF		
0001024	00000000000176052616	00000000000000000000	00000000000000000000	00000000000000000000	A EVN		
0001030	55000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001034	00000000000000000000	00005700000006012324	56552005562733345623	37373333562534415503		FAST, PE,W01,S4400,U16 C	
0001040	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001050	00000000433676051100	00000331155460362400	00002040000000000000	00003600003600000000	83 EI CYM= 3T P5 3 3		
0001054	02342000175000000000	00000237420000002272	77777777777777777777	00007777770000000022	BIP O/ B47 R		R
0001060	00007777770000000000	00007777000000000000	37770000377700000000	00000000000000000000	4 4		
0001064	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777		K SYSTEMX4	
0001070	00000000000000000000	60450000000000000000	00004000000301330142	40044001400100010001	+ 5	CAOA75D5A5A A A	
0001074	01010102000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAB		
0001100	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001110	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000			4
0001114	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001130	03253457000000000000	15170405513352000000	03253457000000000000	05301124570000000000	CUI. MODE(0) CUI. EXIT.		
0001134	04152057000000000000	04152051333341373333	52000000000000000000	11065105065417040552	DMP. DMP(006400) IF(EF=ODE)		
0001140	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000	RETURN(OUTPUT)		
0001144	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001200	00000000000000000000	00305400001654000001	00002300001655000031	70000000001666001677		X= N= A S N Y N N	
0001204	00000000001667000001	00000000777776000001	00001200001676000000	00000000001675777776	N A A J N N		
0001210	00000000000000000003	00015554464544160235	00004342247467461675	00010704517157143572	C A --+9NB2 87T -N AGD( .L2		
0001214	00015246766646625467	00000000000000000001	00000305475675332546	00000000000000000007	A)- - = A CE+, OU- G		
0001220	20000000000030540023	15220733010107000000	00010100000000000000	00077755010003256132	P X= SMRGOAAG AA G A CU Z		
0001224	00000000000176052617	00000000000000000000	00000000000000000000	00000000000000000000	A EVO		
0001230	55000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001234	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001250	00000000427020456164	00000330032053263400	00001040000000000000	00003600003600000000	7 P+ CXCP1V1 H5 3 3		
0001254	02342000175000000000	00000235520000002102	77777777777777777777	00007777770000000010	BIP O/ B2) QB H		
0001260	00007777770000000000	00007777000000000000	37770000377700000000	00000000000000000000	4 4		
0001264	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777		K SYSTEMX4	
0001270	00000000000000000000	60510000000000000000	00004000000301330142	40054002400200010001	( 5	CAOA75E5B5B A A	
0001274	01010107000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAG		
0001300	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001310	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000			4
0001314	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001330	15220757000000000000	15170405513352000000	15220757000000000000	05301124570000000000	MRG. MODE(0) MRG. EXIT.		
0001334	04152057000000000000	04152051333335363333	52000000000000000000	11065105065417040552	DMP. DMP(002300) IF(EF=ODE)		
0001340	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000	RETURN(OUTPUT)		
0001344	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001400	00000000000000000000	00321700001731000001	00002100001514000002	70000000346114001727		ZD OY A Q ML B 1 L UW	
0001404	00000000237405000001	00000000254275000000	00001400001732365577	00000000001727777774	S E A U7 L 023 UW		
0001410	00700000000000000000	11505230632503220775	77000000000000000000	77777000000000000000	I/JX UCRG		

0001414 77077000000000000000 00000000000000000011 0000000000000024000 66272547145274603002 G I B5 WU\*L) XB  
 0001420 20000000000032170021 01143033010101000000 00010100000000000000 00100210010003363166 P ZO QALXOAAA AA HBHA C3Y  
 0001424 000000000000176052610 00000000000000000000 00000000000000000000 00000000000000000000 A EVH  
 0001430 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0001434 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001450 00000000440336152521 00000337251162016400 00000760000000000000 00003600003600000000 9C3MUQ C4UI A G 3 3  
 0001454 02342000175000000000 00000235520000002102 77777777777777777777 00007777770000000007 BIP O/ B2) QB 4 4 G  
 0001460 00007777770000000000 00007777000000000000 37770000377700000000 00000000000000000000 4 4 K SYSTEMX4  
 0001464 00000000000000000000 00000000000000000000 00000000000000130000 23312324051530377777 5 CAOA75A6M6M A A  
 0001470 00000000000000000000 60410000000000000000 0000400000301330142 40014115411500010001 6  
 0001474 01010101000000000000 77777777777777777777 77777777777777777777 AAAA 5  
 0001500 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001510 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
 0001514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001530 01143057000000000000 15170405513352000000 01143057000000000000 05301124570000000000 ALX. MODE(0) ALX. EXIT.  
 0001534 04152057000000000000 04152051333333343333 52000000000000000000 11065105065417040552 DMP. DMP(002100) IF(EF=ODE)  
 0001540 55220524252216511725 24202524520000000000 00000000000000000000 00000000000000000000 RETURN(OUTPUT)  
 0001544 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001600 00042001000001000000 00000000001600000001 00777700001601001600 70070000001256377700 DPA A N A NA N G J,4  
 0001604 00000000001222000020 00000000377701044556 00000000045764042121 00000000045763001600 JR P 4 AD+ D. DQQ D. N  
 0001610 00000000000000000000 000000000000000000673 000000000000377700 0000000000000045756 00000000005401000000 F 4 D.,  
 0001614 00000000005401000000 00000000000000000000 00000000000000000000 00000000000000000000 -A -A  
 0001620 40000000000037770200 03232533010105000000 00010100000000000000 00077752010003155173 5 4 B CSUOAAE AA G )A CM(  
 0001624 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0001630 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0001634 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001650 00000000426472706156 00000317547501006000 00001000000000000000 00003600003600000000 7 , CO= A H 3 3  
 0001654 02342000175000000000 00000243600000002710 77777777777777777777 00007777770000000014 BIP O/ B8 WH 4 4 L  
 0001660 00007777770000000000 00007777000000000000 37770000377700000000 00000000000000000000 4 4 K SYSTEMX4  
 0001664 00000000000000000000 00000000000000000000 00000000000000130000 23312324051530377777 5 CAOA75B5A5A A A  
 0001670 00000000000000000000 60430000000000000000 0000400000301330142 40024001400100010001 8  
 0001674 01010105000000000000 77777777777777777777 77777777777777777777 AAAE 5  
 0001700 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001710 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
 0001714 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0001730 03232557000000000000 15170405513352000000 03232557000000000000 05301124570000000000 CSU. MODE(0) CSU. EXIT.  
 0001734 04152057000000000000 04152051333533333333 52000000000000000000 11065105065417040552 DMP. DMP(020000) IF(EF=ODE)  
 0001740 55220524252216511725 24202524520000000000 00000000000000000000 00000000000000000000 RETURN(OUTPUT)  
 0001744 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0002000 00000000000000000000 00417700001656000001 00010000001666007064 70000000000162001747 6 N, A A N A O\*  
 0002004 00000000006603000011 00000000006603000000 00002000001657001747 00000000001651007700 C I C P N. O\* N(  
 0002010 00000000000000000000 00000000000000007064 20335073235667302045 00000000000000000000 PO/ S, XP+ U ) CM/Q U C  
 0002014 20335073235667302045 52772552520077005277 03155021677325747064 00000000000000000000 P S, XP+ U ) CM/Q U H MA CO 3  
 0002020 2000000000041770100 03152533010110000000 00010100000000000000 0010001501000336136 P 6 A CMUOAAH AA  
 0002024 0000000000176052612 00000000000000000000 00000000000000000000 00000000000000000000 A EVJ  
 0002030 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0002034 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0002050 00000000442275743356 00000335422672343000 00000740000000000000 00003600003600000000 9R O, C27V 1X G5 3 3

0002054 0234200017500000000 00000240000000002330 7777777777777777777 00007777770000000015 B1P O/ B5 SX M  
 0002060 0000777777000000000 0000777700000000000 3777000037770000000 0000000000000000000 4 4  
 0002064 0000000000000000000 0000000000000000000 0000000000000013000 2331232405153037777 K SYSTEMX4  
 0002070 0000000000000000000 6053000000000000000 0000400000301330142 40014117411700010001 \$ 5 CAO A75A6U6U A A  
 0002074 0101011000000000000 7777777777777777777 7777777777777777777 7777777777777777777 AA AH  
 0002100 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002110 0000000000000000000 0000000000000000000 0000000000000000000 37777777777777000000 4  
 0002114 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002130 0315255700000000000 1517040551335200000 0315255700000000000 0530112457000000000 CMU. MODE(0) CMU. EXIT.  
 0002134 0415205700000000000 0415205133343333333 5200000000000000000 1106510506541704052 DMP. DMP(010000) IF(EF=ODE)  
 0002140 55220524252216511725 2420252452000000000 0000000000000000000 0000000000000000000 RETURN(OUTPUT)  
 0002144 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002200 0000000000000000000 00427700002506000030 00002700002526000010 70000000002625000020 7 UF X W UV H VU P  
 0002204 0000000000246500000 0000000000246600000 00002200002525000000 00000000002526000000 T T R UU UV  
 0002210 0000000000000077777 0000000000000000000 0000000000000000000 0000000000000000000  
 0002214 0000000000000000000 0000000000000000000 0000000000000002541 0000000000000000000 U6  
 0002220 2000000000042770027 2201163301010400000 0001010000000000000 00100015010003466775 P 7 WRANOAAD AA H MA C-  
 0002224 00000000000176052612 0000000000000000000 0000000000000000000 0000000000000000000 A EVJ  
 0002230 5500000000000000000 0000000000000000000 0000000000000000000 0000000000000000000  
 0002234 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002250 00000000454146044477 00000350341317432400 0000112000000000000 0000360000360000000 +6-D9 C/1K08T IP 3 3  
 0002254 0234200017500000000 00000235520000002102 7777777777777777777 00007777770000000013 B1P O/ B2) QB K  
 0002260 0000777777000000000 0000777700000000000 3777000037770000000 0000000000000000000 4 4  
 0002264 0000000000000000000 0000000000000000000 0000000000000013000 2331232405153037777 K SYSTEMX4  
 0002270 0000000000000000000 6037000000000000000 0000400000301330142 40014116411600010001 4 5 CAO A75A6N6N A A  
 0002274 0101010400000000000 7777777777777777777 7777777777777777777 7777777777777777777 AA AD  
 0002300 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002310 0000000000000000000 0000000000000000000 0000000000000000000 37777777777777000000 4  
 0002314 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002330 2201165700000000000 1517040551335200000 2201165700000000000 0530112457000000000 RAN. MODE(0) RAN. EXIT.  
 0002334 0415205700000000000 04152051333335423333 5200000000000000000 1106510506541704052 DMP. DMP(002700) IF(EF=ODE)  
 0002340 55220524252216511725 2420252452000000000 0000000000000000000 0000000000000000000 RETURN(OUTPUT)  
 0002344 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002400 0001133600225200000 00432600000001000001 00055700000065777765 7007000001304400000 AK3 R) BV A A E. G AX9  
 0002404 00000000000114000002 00000000002452000450 0000240000001026072 00000000012706777001 AL B T) D/ T AB AWF A  
 0002410 0000000000000000000 0000000000000000000 0207062000000000000 00000016250314052523 BGFP NUCLEUS  
 0002414 01000000000351043403 0000000000000000000 14042120000000012703 00000351000352043403 A C(DIC LDQP AWC C( C)DIC  
 0002420 10010000000043260557 0114153133353703000 0030700000000000000 00100441010000027771 HA 8VE. ALMY024C X HD6A B  
 0002424 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000  
 0002430 01043533073056445603 5700000000000000000 0000000000000000000 0000000000000000000 AD20GX,9,C.  
 0002434 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000

0002450 0000000004707630642 00000002452211750000 0503462000000001502 0000360000360000000 \*G F7 B+RI EC-P MB 3 3 A  
 0002454 0234200017500000000 00000261640000004514 7777707777777777777 00007777770000421016 B1P O/ B +L 7HN  
 0002460 00000001000000000220 60007777002456740502 3737000037370000000 0000000000000000000 A BP T, EB44 44  
 0002464 0000000000000000000 0500000041110700000 00000000000000136044 0104353333300002663 E 6IG K 9AD2000 V  
 0002470 00000001000000030764 6101000000000000000 00004000000101320132 0000000000000000000 A CG A 5 AAZAZ  
 0002474 0102220700000000000 00003246777776007777 00001552777713467330 0000000002700002555 ABRG Z-- M) K- X W U  
 0002500 0000000000000000000 4000000000000000000 0000000000000000000 0400000000000000000 5 D  
 0002504 0400000000000000000 0000000000000000000 0000000000000000000 0000000000000000000 D

0002510 00000000000000000000 00000000000000000000 00000000000000000000 00000005677572611400  
0002514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 E L

0002530 01043533073056445603 57000000000000000000 00000000000000000000 00000000000000000000 AD20GX,9,C.  
0002534 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0002540 22052425221656230322 57000000000000000000 05162125112205561216 57000000000000000000 RETURN,SCR. ENQUIRE,JN.  
0002544 22171414172524563633 57000000000000000000 07172417560301241411 23245700000000000000 ROLLOUT,30. GOTD,CATLIST.  
0002550 22052605222457030314 55555555555555550000 05301124570303140000 22052605222456010217 REVERT.CCL EXIT.CCL REVERT,ABO  
0002554 22245703031455550000 00000000000000000000 00000000000000000000 00000000000000000000 RT.CCL  
0002560 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0002600 00000000000000000000 00514300002001000020 00002300002021000014 70000000002071340702 (B PA P S PQ L P LGB  
0002604 00000000002014000000 00000000002073126662 00002600002007000000 00000000000157002076 PL P J V PG A. P  
0002610 00000000000000000000 00000000000000000000 00000000000000000000 00000000002067000000 P  
0002614 000000000000000002076 00000000000000000000 00000000000000000000 00000000000000002001 P PA  
0002620 20000000000051430023 06232433010103000000 00010100000000000000 00100015010003537013 P (B SFSTO AAC AA H MA C S K  
0002624 00000000000176052613 00000000000000000000 00000000000000000000 00000000000000000000 A EVK  
0002630 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0002634 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0002650 00000000462452356716 00000355304062704400 00001020000000000000 00003600003600000000 -T12 N C X5 9 HP 3 J  
0002654 02342000175000000000 00000235520000002102 77777777777777777777 B1P O/ 82) QB H  
0002660 00007777770000000000 00007777000000000000 37770000377700000000 00000000000000000000 4 4 K SYSTEMX4  
0002664 00000000000000000000 00000000000000000000 0000000000000130000 23312324051530377777 2 5 CA0A75E5A5A A A  
0002670 00000000000000000000 60350000000000000000 00004000000301330142 40054001400100010001 AAAC 77777777777777777777  
0002674 01010103000000000000 77777777777777777777 77777777777777777777  
0002700 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0002710 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
0002714 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0002730 06232457000000000000 15170405513352000000 06232457000000000000 05301124570000000000 FST. MODE(0) FST. EXIT.  
0002734 04152057000000000000 04152051333335363333 52000000000000000000 11065105065417040552 DMP. DMP(002300) IF(=ODE)  
0002740 55220524252216511725 24202524520000000000 00000000000000000000 00000000000000000000 RETURN(OUTPUT)  
0002744 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003000 00000702001600000000 00516600000001000001 00001600000000000000 70070000000000000000 GB N ( A A N G  
0003004 00000000000000000000 00000000000000000000 00003000000701000000 00000000000000000000 X GA  
0003010 77777777777777000000 03201520007400000112 00000000007400000000 00000000000000000000 CPMP AJ  
0003014 00000000000000000000 00000000000000000000 03201520007400000112 00000000000000000000 CPMP AJ  
0003020 10010000000051660016 01124031333437030000 00307000000000000000 00100443010000010044 HA ( NAJ5Y014C X HD8A A 9  
0003024 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0003030 11065157161724575106 11140551240120053556 012352525507175524 17563401020357550000 IF(.NOT.(FILE(TAPE2,AS))) GO TO,1ABC.  
0003034 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003050 0000000001416077473 00000000404707341000 01443320000000000502 00007400003600000001  
0003054 02342000175000000000 00000236100000002140 77777077777777777777 00007777770000141605 B1P O/ 5\*GLH A90P EB 3 A  
0003060 00000001000000000040 60007777002456740136 20370600203700000000 00000000000000000000 B3H Q5 LNE  
0003064 00000000000000000000 00000000000000000000 00000000000000132746 13150435364242002377 T, A3P4F P4  
0003070 00000000000000000000 64070000000000000000 00004000000501440166 00014213421300010001 KW-KMD2377 S  
0003074 01032431000000000000 00003246777740007777 00001755777714175025 00000000002700000555 ACTY G 5 EA9A A7K7K A A  
0003100 00000000000000000000 40400000000000000000 00000000000000000000 00000000000000000000 Z- 5 O LO/U W E  
0003104 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 55  
0003110 00000000000000000000 00000000000000000000 00000000000000000000 00000004154067471400  
0003114 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 DM5 +L

0003130 22052425221656240120 05355755000000000000 06111405562401200535 56222454325602245403 RETURN,TAPE2. FILE,TAPE2,RT=Z,BT=C

0003134 56061454433357550000 2206145641333333357 0000000000000000000 21255755000000000000 ,FL=80. RFL,60000. OU.  
 0003140 11065157161724575106 11140551240120053556 01235252525507175524 17563401020357550000 IF(.NOT.(FILE(TAPE2,AS))) GO TO,LABC.  
 0003144 16170530112457550000 20252207055605201424 01203457000000000000 17160530112457550000 NOEXIT. PURGE,EPLTAP1. ONEXIT.  
 0003150 22052425221656052014 24012034575500000000 04050611160556052014 24012034575500000000 RETURN,EPLTAP1. DEFINE,EPLTAP1.  
 0003154 22052711160456475755 00000000000000000000 03172031562401200535 56052014240120345755 REWIND,\*. COPY,TAPE2,EPLTAP1.  
 0003160 00000000000000000000 03011414512205201435 52550000000000000000 34010203560317151505 CALL(REPL2) IABC,COMME  
 0003164 16245755000000000000 05301124575500000000 00000000000000000000 00000000000000000000 NT. EXIT.  
 0003170 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003200 00010664025000000000 00600200000001000637 00000000010215000000 70070000007556015667 AF B/ B A F4 ABM G ,A,  
 0003204 00000000010437000050 00000000010222015667 00003200000001000055 00000000010216000033 AD4 / ABRA, Z A ABN D  
 0003210 77777777777777000000 00000000000000000000 23230320007770000000 00000000000000005146 SSCP (-  
 0003214 00000000007770000000 00000000007770000000 23230320007770005146 23230320007770005146 SSCP (-SSCP (-  
 0003220 00000000000060020000 00000000000000000000 00000000000000000000 0010063301000036271 B HFOA C  
 0003224 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0003230 00000000000000000000 37000000000000000000 00000000000000000000 00000000000000000000 4  
 0003234 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003250 00000000003650773700 00000002627261076000 00443100000000000053 00003600003600000000 3/ 4 B G 9Y \$ 3 3  
 0003254 02342000175000000000 00000242640000002614 77777777777777777777 00007777770000000134 BIP O/ B7 VL A1  
 0003260 00007777770000000000 00007777000000000000 37770250377700000000 00000000000000000000 4 B/4  
 0003264 00000000000000000000 00000000000000000000 77777777777777777777 00000000000000002747 W+  
 0003270 40000000000000000261 00000000000000000000 05000000001301620170 00000000000000000000 5 B E KA A  
 0003274 00000000000000000000 77777777777777777777 77777777777777777777 77777777777777777777  
 0003300 00000000000000000000 40010000000000000000 00000000000000000000 00000000000000000000 5A  
 0003304 00000000000000000000 40000000000000000000 00000000000000000000 00000000000000000000 5  
 0003310 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
 0003314 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003330 16235624424242423357 00000000000000000000 03100122070556565616 23570000000000000000 NS,T77770. CHARGE,,,NS.  
 0003334 23251151354237425255 5555555555555474747 47474747474747474747 00000000000000000000 SUI(2747) \*\*\*\*\*  
 0003340 16172205222516570000 16170530112457550000 23052451223654335255 00000000000000000000 NORERUN. NOEXIT. SET(R3=0)  
 0003344 47555555555555555555 55555555555555555514 17172055251624111455 05162411220500000000 \* LOOP UNTIL ENTIRE  
 0003350 47555555555555555555 55555555555555555516 05242717221355240522 15111601240523570000 \* NETWORK TERMINATES.  
 0003354 27101114055622365433 56220523240122245755 00000000000000000000 2206145135403333352 WHILE,R3=0,RESTART. RFL(25000) D  
 0003360 00000000000000000000 16235755000000000000 04112320140131510506 52555555555555555504 NS. DISPLAY(EF)  
 0003364 11232014013155052222 17225506140107570000 17060623275134563556 36563752000000000000 ISPLAY ERROR FLAG. OFFSW(1,2,3,4)  
 0003370 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003400 00003365004156000000 00600200000001000001 00012000000124003650 70070000000122010675 0 6, B A A AP AT 3/ G ARAF  
 0003404 00000000003651010675 00000000000112011601 00003400000001005277 00000000000112005330 3(AF AJANA 1 A ) AJ \$X  
 0003410 000000000000000001202 00000000000000000000 0000000000000010675 0411000000002010660 JB AF DI BAF  
 0003414 77777777777777770000 00000000000000000121 22031400000000000000 00000000000000005033 AQRCL /O  
 0003420 20020000000060020120 01013231333337030000 00307000000000000000 00100443010000004621 PB BAPAAZY004C X HD8A -Q  
 0003424 00000000000176052611 00000000000000000000 00000000000000000000 00000000000000000000 A EVI  
 0003430 53050411245604202322 57000000000000000000 00000000000000000000 00000000000000000000 \$EDIT,DPSR.  
 0003434 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003450 0000000000221447115 00000000063243505000 00303220000000000056 00007400003600000001 B09 M FZ8// XZP , 3 A  
 0003454 02342000175000000000 00000245500000003100 77777077777777777777 00007777770000004666 BIP O/ B+/ Y -  
 0003460 00000001000000000000 60007777002456740325 20370000203700000000 00000000000000000000 A T, CUP4 P4  
 0003464 00000000000000000000 00000000000277000000 0000000000000132046 03121534374200000147 B KP-CJM147 A\*  
 0003470 00000000000000000000 61230000000000000000 00004000000101320132 00000000000000000000 S 5 AAZAZ  
 0003474 01032730000000000000 0000324677740007777 0000175777714176225 00000000002700000555 ACWX Z- 5 O. LOU W E  
 0003500 00000000000000000000 40010000000000000000 00000000000000000000 00000000000000000000 5A  
 0003504 00000000000000000000 40000000000000000000 00000000000000000000 00000000000000000000 5  
 0003510 00000000000000000000 00000000000000000000 00000000000000000000 00000003563454444000 C,I=95

0003514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003530 53050411245604202322 57000000000000000000 00000000000000000000 00000000000000000000 \$EDIT,DPSR.  
0003534 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003600 00000000000000000000 00632200003426000001 00020000003432000004 70000000005301002733 R 1V A B 1Z D \$A W0  
0003604 00000000002321000005 00000000002322000022 00003600003525002777 00000000010733000101 SQ E SR R 3 2U W AGO AA  
0003610 77000000000000000000 4655500213650312042 55060107161551342640 67777400040000012003 67777400040000012003 - Q3/YP7 FAGNM(1V5 D APC  
0003614 20600235252270000000 77777777770000000000 00000000000000000007 55060107161551342640 P B2UR G FAGNM(1V5  
0003620 2000000000063220200 03243633010106000000 00011000000000000000 00100440010003203544 P RB CT30AAF AH HD5A CP29  
0003624 00000000000176052615 00000000000000000000 00000000000000000000 00000000000000000000 A EVH  
0003630 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0003634 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003650 00000000426271055361 00000317406572540400 00001720000000000000 00003600003600000000 7 ES C05 -D OP 3 3  
0003654 02342000175000000000 00000243600000002710 77777777777777777777 00007777770000000024 B1P O/ B8 WH T  
0003660 00007777770000000000 00007777000000000000 37770000377700000000 00000000000000000000 4 4  
0003664 00000000000000000000 00000000000000000000 00000000000000130000 23312324051530377777 4 4 K SYSTEMX4  
0003670 00000000000000000000 60470000000000000000 00004000000301330142 40044002400200010001 \* 5 CA0A75D5B5B A A  
0003674 01010106000000000000 77777777777777777777 77777777777777777777 77777777777777777777 AAFA  
0003700 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003710 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
0003714 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0003730 03243657000000000000 15170405513352000000 03243657000000000000 05301124570000000000 CT3. MODE(0) CT3. EXIT.  
0003734 04152057000000000000 04152051333533333333 52000000000000000000 11065105065417040552 DMP. DMP(020000) IF(EF=DDE)  
0003740 55220524252216511725 24202524520000000000 00000000000000000000 00000000000000000000 RETURN(OUTPUT)  
0003744 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004000 00024476005335000000 00652200000001000001 00000000022174777755 7007000000002021763 B9 \$2 R A A BQ G BBO  
0004004 00000000022131025003 00000000020041026615 0000400000001776677 00000000026463000030 BQYB/C B 6B M 5 A B X  
0004010 00000000000000000000 00000000000000000000 17170631463146403615 20000000000000000012 000Y-Y-53MP J  
0004014 20000000000000000000 00000000000000000004 05160420000000000000 20000000000000000001 P DENDP P A  
0004020 00000000000065220000 00000000000000000000 00000000000000000000 0010061600000040000 R HFN D  
0004024 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0004030 00000000000000000000 55445742443525162423 57000000250503205655 5555555553757403337 9.792UNTS. UECP, 4.504  
0004034 23050323570000002505 00000000000000000000 00000000000000000000 00000000000000000000 SECS. UE  
0004040 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004050 0000000000565433134 00000000206165454000 00313000000000000005 00007400003600000002 E 8Y1 P +5 YX E 3 B  
0004054 02342000175000000000 000002342000000001750 77777077777777777777 00007777770000047732 B1P O/ B1P O/ D Z  
0004060 00000014200000000014 60007777002456740117 20370000203700000000 00000000000000000000 LP L T, ADP4 P4  
0004064 00000000000000000000 00026367000000000000 77777777777777777777 22020637000000210233 B RBF4 Q80  
0004070 00000000000000000000 00000000000000000000 00004000000501410141 00000000000000000000 5 EA6A6  
0004074 00000000000000000000 00003246777740007777 00001755777714177600 00000000002700001555 Z- 5 0 LO W. M  
0004100 00000000000000000000 40000000000000000000 00000000000000000000 00000000000000000000 5  
0004104 00000000000000000000 01000000000000000000 00000000000000000000 00000000000000000000 A  
0004110 00000000000000000000 00000000000000000000 00000000000000000000 00000055646710372000  
0004114 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 H4P

0004130 14172205165624424242 57550000000000000000 25230522512202063752 00000000000000000000 LOREN,T777. USER(RBF4)  
0004134 03100122070551423440 43564213160244334333 52550000000000000000 06241657000000000000 CHARGE(7158,7KNB9080) FTN.  
0004140 14071757000000000000 16541523231211245616 01570000000000000000 110605565716172455706 LGO. N=MSSJIT,NA. IFE,.NOT.F  
0004144 11140551040131345601 23525625230522161735 57000000000000000000 07052456040131345025 ILE(DAY1,AS),USERNO2. GET,DAY1/U  
0004150 16541523061411025616 01570000000000000000 05160411065625230522 16173557000000000000 N=MSFLIB,NA. ENDF,USERNO2.  
0004154 05160411065625230522 16173457000000000000 11060556571617245706 11140551040131345601 ENDF,USERNO1. IFE,.NOT.FILE(DAY1,A

0004160 23525616172406160457 00000000000000000000 22052605222457550401 31345516172455061725 S),NOTFND. REVERT. DAY1 NOT FOU  
 0004164 16045700000000000000 05160411065616172406 16045700000000000000 30050411245604013134 ND. ENDF,NOTFND. XEDIT,DAY1  
 0004170 03172031561104141707 00000000000000000000 00000000000000000000 00000000000000000000 COPY,IDLOG  
 0004174 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0004200 00003306050000000000 00713000000001000221 00024400002727000013 70070000002476000016 OFE X A BQ B9 WM K G T N  
 0004204 000000000003151000013 00000000002734000010 0000420000001000001 00000000002730000013 Y( K WI H 7 A A WX K  
 0004210 77777777777777000000 00000000000000000000 23230320007770000000 0000000000000000331 SSCP CY  
 0004214 00000000007770000000 00000000007770000000 23230320007770000331 23230320007770000331 SSCP CYSSCP CY  
 0004220 20000000000071300244 22020655555555000000 00727767000000000000 00000775010000020227 P XB9RBF G A BBW  
 0004224 000000000000176052571 00000000000000000000 00000000000000000000 00000000000000000000 A EU  
 0004230 2503152356555553433 37435740424113251623 57000000010050263014 54157776340314043404 UCMS, 1048.576KUNS. A /VXL=M ICLD10  
 0004234 37040712300335031012 00000000000000000000 22552324172201070555 51031552575555000000 4DGJXC2CHJ R STORAGE (CM).  
 0004240 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004250 00000000000000000000 00000034062613652000 67270400000000000005 00000000000000000000 IFVK P WD E  
 0004254 00000000000000000000 00000000000000000000 77777777777777777777 77777777770000000000  
 0004260 00007777777000000000 00000000000000000000 37770500377700000000 00000000000000000000 4 E 4  
 0004264 00000000000044000000 00000000000000000000 0000000000000130000 00000000000000002747 9 K W\*  
 0004270 000000770000000000260 62530000000000000000 00004000000401420162 00024137413700010001 B \$ 5 DA7A B6464 A A  
 0004274 01010226000000000000 77777777777777777777 77777777777777777777 AABV  
 0004300 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004310 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
 0004314 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004330 23251156354237425755 00000000000000000000 2206145140333333352 00000000000000000000 SUI,2747. RFL(50000)  
 0004334 27221124050651220206 22171414525555555522 02065506145522171414 17252455061114055755 WRITE(FRBFROLL) RBF FL ROLLOUT FILE.  
 0004340 00000000000000000000 22020635203357550000 02050711165617060620 22170356170606202217 RBF2PO. BEGIN,OFFPROC,OFFPRD  
 0004344 03562202065700000000 17252457000000000000 03140501225700000000 05301124575500000000 C,RBF. OUT. CLEAR. EXIT.  
 0004350 04152057000000000000 04150451343333333333 52550000000000000000 02050711165622020620 DMP. DMD(100000) BEGIN,RBFP  
 0004354 22170356220206202217 03570000000000000000 02050711165617060620 22170356170606202217 ROC,RBFPROC. BEGIN,OFFPROC,OFFPRD  
 0004360 03562202065700000000 05301124575500000000 00000000000000000000 00000000000000000000 C,RBF. EXIT.  
 0004364 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004400 00001470002334000000 00737400002334000001 00002400000410000000 70070000002303000012 L S1 S1 A T DH G SC J  
 0004404 00000000000006000004 00000000000027000010 00004400000010000055 0000000000101000055 F D W H 9 A AA  
 0004410 00000000000000000001 40000000000000000000 00000000000000000000 00000000000000000000 A5  
 0004414 00000000000000000000 00000000000000000000 22031400000000000000 00000000000000000000 RCL  
 0004420 20010000000073740024 15010716052455000000 00767773000000000000 00000000000000000000 PA TMAGNET  
 0004424 00000000000176052577 00000000000000000000 00000000000000000000 00000000000000000000 A EU  
 0004430 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0004434 00000000000000000000 00002334000014747374 20475504112320140131 00000100264050006456 S1 L P\* DISPLAY A V5/ ,  
 0004440 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004450 00000000000000000000 00000074445103112000 00000400000000000000 00000000000000000000 9(CIP D  
 0004454 00000000000000000000 00000000000000000000 77777777777777777777 77777777770000000000  
 0004460 00007777770000000000 00000000000000000000 05000000050000000000 00000000000000000000 E E  
 0004464 00000000000000000000 00000000000000000000 0000000000000130000 00000000000000000000 K  
 0004470 00000000000000000000 60610000000000000000 00004000000101310134 00000000000000000000 5 AAYA1  
 0004474 01010123000000000000 77777777777777777777 77777777777777777777 AAAS  
 0004500 00100000270077000101 00000000000000000000 00000000000000000000 00000000000000000000 H W AA  
 0004504 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
 0004510 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777000000 4  
 0004514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004530 15010716052457550000 15010716052434570000 05301124575500000000 15010716052434570000 MAGNET. MAGNET1. EXIT. MAGNET1.  
 0004534 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0004600	00000000000000000000	00742000000000000000	00002300000000000000	70070000000000000000		P	S	G
0004604	00000000000000000000	00000000000000000000	00004600000000000000	00004600000000000000			-	-
0004610	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0004620	00030000000074200023	02012403101117000000	00767774000000000000	00000000000000000000	C	P SBATCHID		
0004624	00000000000000000000	00000000000000000000	34111763010400010002	00000000000000000000			110 AD A B	
0004630	55355502250606052223	55010324112605570000	01001756140034453457	165533356553335700	2	BUFFERS ACTIVE.	A O,L 1+1.N 00, 00.	
0004634	0000101404553335700	00001227340000120000	11475504112320140131	57000000304412010413		HLD 00. JWI J	I+ DISPLAY. X9JADK	
0004640	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0004650	00000000000000000000	00000000000000000000	75114200000000000000	00000000000000000000			17	
0004654	00000000000000000000	00000000000000000000	77777777777777777777	77777777770000000000				
0004660	00007777770000000000	00000000000000000000	37770000377700000000	00000000000000000000			4 4	
0004664	00000000000000000000	00000000000000000000	00000000000000130000	00000000000000000000				K
0004670	00000000000000000000	60570000000000000000	00004000000000000000	00000000000000000000			5	
0004674	01010122000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAR			
0004700	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0004710	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777777777				4
0004714	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0004730	0000000000000470000	00030000000000000000	0000000000000700000	00000000000000000000		* C		
0004734	01132401032321610000	00000004000000000004	0000000000000720000	00000004000000000004	AKTACSQ	D D		D D
0004740	00000000000000730000	00000000000000000000	0000000000000740000	00010000000000000000				A
0004744	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0005000	00001177031600000000	00744300000001000001	00033400003570003571	70070000031600003571	I CN	8 A A C1 2 2 G CN 2		
0005004	00000000003420000004	00000000000704003411	00005000000001024145	00000000000106000244	1P D	GD 11 / AB6+		AF B9
0005010	77777777777777777600	00000000000000000000	00000000377700000000	000000007777777767			4	
0005014	77777777000000000000	00000000000000000035	22031400000000000000	00000000000000003411			2RCL	11
0005020	20010000000074430334	23241555555550000000	00607761000000000000	00001006010000017774	PA	BC1STM		HFA A
0005024	00000000000176052574	00000000000000000000	00000000000000000000	00000000000000000000		A EU		
0005030	55171614111605554055	03222455405520221116	24553355220501045533	55000000000000000000		ONLINE 5 CRT 5 PRINT 0 READ 0		
0005034	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0005050	00000000000000000000	00000106605470430000	23115000000000000015	00000000000000000000			AF = 8 SI/	H
0005054	00000000000000000000	00000000000000000000	77777777777777777777	77777777770000000000				
0005060	00007777770000000000	00000000000000000000	37770060377700000000	00000000000000000000			4 4	
0005064	00000000000000000000	00000000000000000000	00000000000000130000	00000000000000002747				K
0005070	40000177000000000511	61470000000000000000	0000000001301530170	00014153415300010001	5 A	EI *		KASA A616\$ A A
0005074	01010232000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AABZ			
0005100	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0005110	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000				4
0005114	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0005130	47550422172057550000	16172205222516570000	47552205212505232456	17205703100503135505	* DRDP.	NORERUN. * REQUEST,OP-CHECK E		
0005134	21553740000000000000	22052425221651172052	00000000000000000000	23251156354237425755	Q 45	RETURN(OP)		SUI,2747.
0005140	00000000000000000000	01242401031056232405	15061114575500000000	16170530112457550000		ATTACH,STEMFIL.		NOEXIT.
0005144	34564755000000000000	23052451050654335255	00000000000000000000	22052425221656232405	1,*	SET(EF=0)		RETURN,STE
0005150	15172524575500000000	23240515561614543437	56215755000000000000	22061456414033333357	MDUT.	STEM,NL=14,Q.		RFL,65000.
0005154	00000000000000000000	47550516202256363357	00000000000000000000	11065151232734570521		* ENPR,30.		IF((SW1.EQ
0005160	57335257011604575123	27355705215734525220	17232405155114540152	00000000000000000000		.0).AND.(SW2.EQ.1))POSTEM(L=A)		
0005164	11065151232734570521	57345257011604575123	27355705215733525220	17232405155114540252		IF((SW1.EQ.1).AND.(SW2.EQ.0))POSTEM(L=B)		
0005170	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				



0005200 00044232011014000000 00000000041754000001 00777700005561000073 70060000010740000044 D7Z AHL DD= A F AG5 9  
0005204 00000000010742011010 57000000005561044232 00005200041752010760 00000000005561000070 AC7AHH. D7Z J DOJAG  
0005210 77777777777700000000 00000000000000000000 00020143002400072043 00000000000000000001 BAB T GP8 A  
0005214 00000000000000000000 00000000000000000645 00000000000000000001 00000000000000000000 F+ A  
0005220 00020000000000000777 23312324051555000000 01007777000000000001 00000000000000000000 B SYSTEM A A  
0005224 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 CHECKPOINT COMPLETE. SYSTE RECOVER  
0005230 55031005031320171116 24550317152014052405 57000000552331232405 00005522050317260522 ED. A /PDS WAIT MTR. A B .9XHE A  
0005234 05045700000001005020 04230455270111245515 24225700000001006274 02005744301005720100  
0005240 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0005250 00000000000000000000 00000111410252454000 00000000000000000000 00000000000000000000 A16B)+5  
0005254 00000000000000000000 00000000000000000000 77777777777777777777 00000000000000000000  
0005260 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0005274 00000000000000000000 77777777777777777777 00014136413600016075 00000000004000020007 A6363 A 5 B G  
0005300 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0005310 00000000000000000000 00000000000000000000 00000000000000000000 37777777777777777777 4  
0005314 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0005340 34550320363737341455 55160401550425152055 01160114312311235546 55012210550314172305 1 CP3441L NDA DUMP ANALYSIS - ARH CLOSE  
0005344 04552310172000000000 55030320551001142455 34340000000000000000 00000000000212000000 D SHOP CCP HALT 11 BJ  
0005350 000000000000000000174 00000000000000000000 00000000000000000212 042515200000000000061 A BJDUMP  
0005354 000000000000000001005 000000000000000002473 03111720000000000212 00000000000000000000 A E T CIOP BJ  
0005360 00410000000057750074 04112333020427000000 00757761200100000000 00031024000000010000 6 . DISOBDM PA CHT A  
0005364 00000000000000000000 00000000000000000000 04112357000000000010 00000000000000000000 DIS. H  
0005370 01232311071656413556 04251520560454200556 14025413255700000000 00000000000000000000 ASSIGN,62,DUMP,D=PE,LB=KU.  
0005374 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0005400 15242221000000000000 00464200000176052621 00000000000000000000 00000000000000041752 MTRQ -7 A EVQ DD1  
0005404 00000000000000041753 00000000000000041757 00000000000000041761 00000000000000041755 DD% DD. DD DD  
0005410 04230425000000000000 10531707002400757777 34041425001000440136 00000000000000000000 DSDU H%G T LDU H 9A3  
0005414 00000000111021071500 55334257343657333357 55424450334350344257 00400000000000000000 IHOGH 07.13.00. 79/08/17. 5  
0005420 03201554007400000112 00330000000200003060 00000001411406450001 00000042004600150005 CPM= AJ O B X A6LF+ A 7 - M E  
0005424 00000000000000000000 17563401020357550000 00000000000000000000 5555555553357333335 O,I,ABC. 0.002  
0005430 03111716000000000112 00300000000000000000 00050002414300240001 0000043006100240024 CION AJ X E B68 T A 8 T T  
0005434 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333335 0.002  
0005440 00000000000000005630 00000000000000000000 34152422125300000001 00000016025400000027 ,X IMTRJ% A NB= W  
0005444 00000000000000000000 56165433575500000000 00000000000000000000 5555555553357333335 ,N=O. 0.002  
0005450 00000000000000005610 00000000000000000000 34152422517100040001 0000043000700420026 ,H IMTR( D A 8 G 7 V  
0005454 00000000000000000000 00000000000000000000 5555555553357334135 5555555553357333335 0.062 0.002  
0005460 00000000000000005440 00000000000000000000 34152422517100040001 0000024027500170004 -5 IMTR( D A TB O D  
0005464 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0005470 23241564001600003411 00460000000000000000 00070002411411650000 0000043004600230021 STM N 11 - G B6LI 8 - S Q  
0005474 00000000000000000000 00000000000000000000 5555555553357343440 5555555553357333336 0.115 0.003  
0005500 00000000000000000000 00000000000000000000 03243633010106000100 00100076002200000000 CT30AAF A H R  
0005504 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333334 0.001  
0005510 21012023000100001165 00330042005300000035 00070001412702760011 0000042005300310035 QAPS A I O 7 % 2 G A6WB I 7 % Y 2  
0005520 00000000000000005460 00000000000000000000 34152422717300040001 00000006023600010012 = IMTR D A FB3 A J  
0005524 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333334 0.001  
0005530 34152422327200000001 00000106471203541073 34152422327200000001 0000043001600000033 IMTRZ A AF+JC=H IMTRZ A 8 N O  
0005534 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333335 0.002  
0005540 21012023000500140151 00610701004100061011 21012023000100000145 00100076002200000000 QAPS E LA( GA 6 FHIQAPS A A+ H R  
0005544 00000000000000000000 00000000000000000000 00000000000000000000 00000000111021202735 IHQPWZ  
0005550 20112003000000000134 00000001412701615350 00050001412701620000 0000042005300270021 PIPC A1 A6WA %/ E A6WA 7 % W Q  
0005554 00000000000000000000 00000000000000000000 00000000000000000000 51072001055701000672 (GPAE.A F  
0005560 03111702000000000135 00610100003503011073 03111716000000000121 00100076002200000000 CIOB A2 A 2CAH CION AQ H R

0005564	00000000000000000000	00000000000000000000	55555555553357333340	55555555553357333335				0.005	0.002
0005570	34030423000100000000	00000000000000000000	21012023000100000145	00000043005300240023	1CDS A		QAPS A A+	B \$ T S	
0005574	00000000000000000000	00000000000000000000	00000000000000000000	55555555553357333335					0.002
0005600	1404215200000012703	00330100000200010024	00240003612303420005	00020044042700120021	LDQJ	AWC OA	B A T T C	SC7 E B	9DW J Q
0005604	00000000000000000000	00000000000000000000	00000000000000000000	000000000112021202736					IHQPW3
0005610	000000000000000005500	00000000000000000000	34152422125300000001	00000006007000020002			IMTRJ\$	A	F B B
0005614	00000000000000000000	00000000000000000000	00000000000000000000	55555555553357333334					0.001
0005620	34150103000205011552	00447350750000010000	00050001420600010000	00000042010300000000	IMAC BEAMJ	9 /	A	E A7F A	7AC
0005624	00000000000000000000	00000000000000000000	55555555553357333340	55555555553357333335				0.005	0.002
0005630	000000000000000005450	00000000000000000000	002000052502400000210	00000024026200110003			-/	P J/T BH	TB I C
0005634	00000000000000000000	00000000000000000000	00000000000000000000	55555555553357333334					0.001
0005640	00040350033304000000	00014001420004110000	00035750004101000000	00000000000000000000	DC/COD	A5A7 DI	C./	6A	
0005644	00036050004101000000	00054112411200010000	00036150003401000000	00044122412201520000	C / 6A	E6J6J A	C /	1A	D6R6RAJ
0005650	00036250002301000000	00000000000000000000	00036350001301000000	00000000000000000000	C / SA		C /	KA	
0005654	00036450001301000000	00000000000000000000	00036550001301000000	00000000000000000000	C / KA		C /	KA	
0005660	00036650001301000000	00000000000000000000	00036750001301000000	00000000000000000000	C / KA		C /	KA	
0005664	000370500005201000000	00024152415200210000	00037150001501000000	00000000000000000000	C / JA	B616J Q	C /	MA	
0005670	000372500005501000000	00000000000000000000	00037350000010000000	00000000000000000000	C / A		C /	A	
0005674	00037450001201000000	00000000000000000000	00037550001301000000	00000000000000000000	C / JA		C /	KA	
0005700	00037650000010000000	00000000000000000000	00037750003701000000	00000000000000000000	C / A		C /	4A	
0005704	00040050000201000000	00000000000000000000	00040150003501000000	00045231523100010000	D / PA		DA/	2A	D1Y1Y A
0005710	000402500006201000000	00000000000000000000	00040750021304000000	00014002421102610000	DB/ A		DG/BKD		A5B71B
0005714	00041350004401000000	00014003417306210000	777777777777777777	777777777777777777	DK/ 9A	A5C6 FQ			
0005720	00000000000022041003	62000705000004211005	62000705000004211074	00000000000000000000			RDHC	GE	DQHE GE DQH
0005724	42002021000004111163	42002120000004111250	42002120000004131335	42002422000004111422	7 PQ	DII 7	QP	DIJ/7	QP DKK27 TR
0005730	00000010000004237000	46002423000004121507	46000507000004211575	42000705000004211664	H DS	- TS	DJMG7	EG	DQM 7 GE DQN
0005734	42002021000004121753	46002423000004112041	46002423000004112126	46002423000004112213	7 PQ	DJOS-	TS	DIP6-	TS DTQV- TS DIRK
0005740	46002224000004112300	46002422000004112365	46002322000004122452	46002322000004112540	- RT	DIS -	TR	DIS -	SR DJT)- SR DIU5
0005744	46002224000004122625	00000000000000000000	00000000000000000000	46002322000004122713	- RT	DJVV			- SR DJWK
0005750	46002120000004113001	00000000000000000000	46002423000004113066	46002120000004123153	- QP	DIXA		- TS	DIX - QP DJY\$
0005754	47000507000004123241	47000705000004123327	46002422000004113415	46002322000004113502	* EG	DJZ6*	GE	DJOW-	TR DIIH- SR DI2B
0005760	200000000003064247002	20000000010064240001	20000002010024242000	00000004000063247000	P	X T BP	A T	AP	BA TTP D T
0005764	00030001000216207001	00000006000256207001	0024000400023057000	00000012000003224000	C A	BNP A	F B,	P A T D	SE J CR5
0005770	00003213000016240400	00003213000015240401	00003213000015240402	00003213000015240403	ZK	NTD	ZK	MTDA	ZK MTDB ZK MTDC
0005774	00003213000015240404	00003213000055240405	00003213000055240406	00003213000055240407	ZK	MTDD	ZK	TDE	ZK TDF ZK TDG
0006000	00003331000016244220	00003331000016244221	00003331000016244222	00003331000016244223	OY	NT7P	OY	NT7Q	OY NT7R OY NT7S
0006004	00003331000016244204	00003331000016244205	00003331000015244206	00003331000015244207	OY	NT7D	OY	NT7E	OY NT7F OY NT7G
0006010	00230012000003207000	00230012000014203000	00000012010614202400	00000012000014245600	S J	CP	S J	LPX	JAFLPT J LT,
0006014	02000012000054236100	20000000010224240000	20000000000024050000	2000000000016050000	B J	-S P	ABTT P	TE P	NE
0006020	23312324051500011600	00014004400400010005	26011411042532001300	00135677000000000005	SYSTEM AN	A5D5D	A	EVALIDUZ	K K,
0006024	23011426413500001300	00134014000000000005	22233004413500001300	00134016000000000005	SALV62	K K5L		ERSXD62	K K5N E
0006030	22233026413500001300	00134015000000000005	01120321032015020240	00055231000022127600	RSXV62	K K5M		EAJCQCPMBB5	E1Y RJ
0006034	11162025240000010013	00054001400100020005	1116202524000010011	00014116411600020005	INPUT	A K	E5A5A	B	EINPUT A I A6N6N B E
0006040	11162025240000010006	00014115411500020005	11162025240000010007	00024001400100020005	INPUT	A F	A6M6M	B	EINPUT A G B5A5A B E
0006044	11162025240000010004	00044001400100020005	11162025240000010017	00044002400200020005	INPUT	A D	D5A5A	B	EINPUT A O D5B5B B E
0006050	11162025240000010005	00054002400200020005	11162025240000010010	00014117411700020005	INPUT	A E	E5B5B	B	EINPUT A H A6O6O B E
0006054	03242201010125010400	77024150000000030100	34111723010112000023	00000000000000000000	CTRAAAUAD	B6/	CA	I10SAAJ	S
0006060	34152422010113000022	00000000000000000001	22141517042300011600	00024162416203750707	IMTRAAK	R		ARLMDOS	AN B6 6 C GG
0006064	04112333010126000400	77055026000206002262	22100620140000011600	00044275520001320707	DISOAAV	D E/V	BF R	RHFPL	AN D7 J AZGG
0006070	20221706111402001300	00135674000000000005	01141331031417010400	77014170000100043240	PROFILB	K K,		EALKYCLOAD	A6 A DZ5
0006074	04112333013116020240	00014136000027477600	34231103010217000003	00000000000000000001	DISOAYNBB5	A63	M*	1SICABO	C
0006100	11162025244700010012	00000000000000000005	24221702000000001502	00054062473500310305	INPUT*	A J		ETROB	MB E5 *2 YCE
0006104	22021001033012020240	00024151002102340200	34231102010215000002	00000000000000000001	RBHACXJBB5	B61	QB1B	1SIBABM	B
0006110	17252420252400000202	00024133413300020307	24010603142310001502	00024115411500030005	OUTPUT	BB	B6060	BCGTAFLSH	MB B6M6M C E
0006114	01070131031603010400	77014204000100043241	01122311333437020240	00044251000023117600	AGAYCNCAD	A7D	A	DZ6AJI0148B5	D71 SI
0006120	23032237000000001516	00024143414300240302	11162025244700010016	00000000000000000005	SCR4	MN	B6868	TCBINPUT*	A N E
0006124	11010603142310001501	00024132413200020005	01120411032017020240	00054067000022157600	IAFCLSH	MA	B6Z6Z	B	EAJDIPC0BB5 E5 RM

0006130	01151301020322020240	00014133000043177600	04202322000000001516	00014161416101330005	AMKABCRBB5	A60	80	DPSR	MN	A6 6	AO E
0006134	01212031032313020240	00054070000040777600	01122311333536020240	00014134000023117600	AOPYCSKBB5	E5	5	AJSI023885	A61	SI	
0006140	01212031032313020240	00024120000040777600	1116202524000001516	0075000000000000401	AOPYCSKBB5	B6P	5	INPUT	MN		DA
0006144	32323232320407001514	00014215421500020505	34231124010231000024	0000000000000000001	ZZZZZDG ML	A7M7M	BEE1SITABY	T			A
0006150	22020731033011020240	00024153002102330200	32323232321116001514	0075000000000000001	RBGYCXIBB5	B64	QB0B	ZZZZZIN	ML		A
0006154	32323232321725001514	0075000000000000001	0306334200000001524	00014155415500010305	ZZZZZOU ML		ACF07	MT	A6 6	ACE	
0006160	1116202524000001512	0075000000000000401	1725242025240001512	0075000000000000401	INPUT MJ		DAQUTPUT	MJ		DA	
0006164	32323232320335001512	71055222522200020307	07222533340100001512	00024140414000010305	ZZZZZC2 MJ	E)R)R	BCGGRU01A	MJ	B6565	ACE	
0006170	0401310000000001512	00024163416300010305	01151301020321020240	00014143000043177600	DAY MJ	B6 6	ACEAMKABCQB5		A68	80	
0006174	3240515172524001524	00054145527100530303	2324150000000001524	00054101410100030005	STEMOUT MT	E6+)	%%CSTM	MT	E6A6A	C E	
0006200	0722253334000001512	00045240524000110305	0722253400000001512	00024211421100100305	GRU01 MJ	D)5)5	ICEGRUL	MJ	B7I7I	HCE	
0006204	01020101033013010400	77054661000100043240	1400000000000001512	00024142414201760707	ABAACXKAD	E-	A DZ5L	MJ	B6767A	GG	
0006210	16011514170313001203	00135127512700010005	1407170000000001512	00055221522100010505	NAMLOCK JC	K(W)W	A ELGU	MJ	E)Q)Q	AEE	
0006214	01151301020321020240	00024123000043177600	01122311333536020240	00044303000023117600	AMKABCQB5	B6S	80	AJSI023885	D8C	SI	
0006220	0306334300000001524	00024125412500010305	16011503142310001503	00024134413400040005	CF08	MT	B6U6U	ACENAMCLSH	MC	B6161	D E
0006224	34231101010213000001	0000000000000000001	0306334400000001524	00044240424001510305	ISIAABK A		ACF09	MT	D7575A	(CE	
0006230	3240515061114011224	00134773477311710011	0306333400000001524	00024122412200010305	STEMFLAJT	K+ + I	ICF01	MT	B6R6R	ACE	
0006234	16233333010221000140	00024160000001570001	03233333010222000140	0001420600002357500	NS00ABQ A5	B6	A.	AC500ABR	A5	A7F	B2
0006240	16260633010223000140	00024144000001110001	12172522330000301202	00064143414302330303	NVFOABS A5	B69	AI	AJOURO	XJB	F6868B	BOCC
0006244	2426063301022400140	00014137000002500001	01132401032721000263	77044223423500670001	TVFOABT A5	A64	B/	AAKTACW	B	D7S72	A
0006250	2215120000000001502	00044007400700020005	34231121010225000221	0000000000000000001	RMJ MB	D5G5G	B	E1SIQABU	Q		A
0006254	22020622171414001521	00044170416600360305	22020603142310001521	00054071407100020005	RBFROLL MQ	D6 6	3CERBFCLSH	MQ	E5 5	B E	
0006260	22151217223400301202	00125704570400310307	3232323232342001502	00014141414100200307	RMJ0R1 XJB	J.D.D	YCGZZZZ17	MB	A6666	PCG	
0006264	13242322171414001502	00014151415100660305	22153400000000301202	00125702570302770505	KTSROLL MB	A616(	CERM1	XJB	J.B.CB	EE	
0006270	22154100000000301202	00125705570500030405	1501200000000001502	00054100410000210307	RM6 XJB	J.E.E	COEMAP	MB	E6 6	CGC	
0006274	0306333500000001524	00044236423600010305	22153500000000301202	00125711571100630405	CF02	MT	D7373	ACERM2	XJB	J.I.I	DE
0006300	22153600000000301202	00125712571200010005	0306333600000001524	00054105410500010305	RM3 XJB	J.J.J	A ECF03	MT	E6E6E	ACE	
0006304	0306333700000001524	00014154415400010305	00014154415400010305	00125713571300010005	CF04	MT	A6-6-	ACERM4	XJB	J.K.K	A E
0006310	22154000000000301202	00125715571500010005	1531100123100001502	00044161416100020015	RM5 XJB	J.M.M	A EMYHASH	MB	D6 6	B M	
0006314	22154200000000301202	00125707570700010005	24012313141102311202	00064142414200440005	RM7 XJB	J.G.G	A ETASKLIBY	JB	F6767	9 E	
0006320	0526120000000001502	00014142414200020005	17032401231314311202	0014655665600010005	EVJ MB	A6767	B	EDCTASKLY	JB	L ,	A E
0006324	2231120000000001502	00054103410300020005	0600000000000001512	00024176417600020315	RJY MB	E6C6C	B EF	MJ	B6 6	BCM	
0006330	0306334000000001524	00024124412400010305	05262401231314311202	00146563656300010005	CF05	MT	B6T6T	ACEEVTASKLY	JB	L	A E
0006334	0306334100000001524	00044237423700010305	0306334300000001524	00054110411000010305	CF06	MT	D7474	ACECF11	MT	E6H6H	ACE
0006340	22312401231314311202	00146561656100010005	0306334350000001524	00014156415601510305	RYTASKLY	JB	L	A ECF12	MT	A6,6,A	(CE
0006344	0306343700000001524	00054114411401450305	2205031726220001502	00014150415000020307	CF14	MT	E6L6LA+	CEREC0VR	MB	A6/6/	BCG
0006350	0306343300000001524	00054106410600460305	32323232320416001521	00054136521501250303	CF10	MT	E6F6F	-CEZZZZZDN	MQ	E63)MA	UCC
0006354	20221703061114001512	00014241424100210415	0306343600000001524	00024131413101450305	PROCFIL MJ	A7676	QDMCF13	MT	B6Y6YA+CE		
0006360	0300000000000001512	00055252525200020305	2401200536000001212	00075702536500420301	C MJ	E) ) ) )	BCETAPE3	JJ	G.8%	7CA	
0006364	01012511333434010240	00055213000000004010	0722251411020001512	00055204520400130411	AAUI011AB5	E)K	DHGRULIB	MJ	E)D)D	KUI	
0006370	011105011333430010240	00014172000000000247	1605270000000001512	00014174417400010505	AIEA005A85	A6	B*NEW	MJ	A6 6	AEE	
0006374	0005040000000001512	00055260526000010005	1217020730000001512	00024214421400030315	XED MJ	E) )	A EJOBGX	MJ	B7L7L	CCM	
0006400	01163031021011010400	77014162000100043240	01043533073000011212	00076137613701560004	ANXYBHIA	A6	A DZ5AD20GX	AJJ	G 4	4A, D	
0006404	26011411042532001400	0000000000000000001	11162025244700010014	0000000000000000005	VALIDUZ	L		AINPUT*	A	L	E
0006410	05201426052200011214	001356470564700010005	0520142035000001514	00045202520200020005	EPLVER AJL	K,*,*	A EEPLP2	ML	D)B)B	B E	
0006414	01150231333433000263	77055160520100630001	1725242025240001516	0075000000000000005	AMBY010 B	E) ) A	AOUTPUT	MN			E
0006420	32323232320507001514	00024156415600770707	0000000000000000000	0000000000000000000	ZZZZZEG ML	B6,6,	GG				
0006424	20221706111402001400	0000000000000000001	2303223400000001516	00055127512700320301	PROFILB L		ASCR1	MN	E)W)W	ZCA	
0006430	0000000000000000000	0000000000000000000	0000000000000000000	0000000000000000000							
0006434	22152401231314311202	00125517565710250005	0000000000000000000	0000000000000000000	RMTASKLY	JB	J O, .HU	E			
0006440	0000000000000000000	0000000000000000000	0000000000000000000	0000000000000000000							

-----  
0006474 01020101032031010400 77055161000100043240 0000000000000000000 0000000000000000000 ABAACPYAD E( A DZ5  
0006500 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000  
-----  
0010014 0000000000000000000 0000000000000000000 2002330000000000000 0000000000000000000  
0010020 0000000000000000000 0000000000000000000 0000000000000000000 0000000000000000000  
PBO

RA = E,0,10100.  
0000000 CM

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0 79/10/30. 15.19.38. PAGE 14  
NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0010024 00000000000000000000 00000000000000000000 00000000000000000000 77777777777777777777  
0010030 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

---

0010050 32220000064540263006 000000000150000100 00000000000000000000 41234000412400010000 ZR F+5VXF M A 6S5 6T A  
0010054 23312324413500010000 00000000000000177777 10001200041100001200 00000000000000000000 SYST62 A O H J DI J  
0010060 00000000000000000000 00000000000000000000 00014000412777770000 00014745000000000006 A5 6W A++ F  
0010064 40014002400341200000 00040000413500000001 00000000000000000042 00000000000000000000 5A5B5C6P D 62 A 7  
0010070 41214212415741737417 40054006400740100017 40114012401340140017 40154016401740200017 6Q7J6.6 05E5F5G5H 05I5J5K5L 05M5N5O5P 0  
0010074 40214022402340240017 40254026402740300017 40314032403340340017 40354036403740400017 5Q5R5S5T 05U5V5W5X 05Y5Z5051 052535455 0

0035700	24002000401000010000	24001010400400010000	02000100700000010000	00300400020000000000	T P 5H A T HH5D A B A A X D B
0035704	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000	
0035710	34002400401000010000	34001400400600010000	02000100760000010000	00300400020000000000	1 T 5H A 1 L 5F A B A A X D B
0035714	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000	
0035720	40003770700600010000	40043740700000010000	02000100700000010000	00300040001000000000	5 4 F A 5D45 A B A A X 5 H
0035724	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000	
0035730	67746700740000010000	67744000740000010000	60000100770000010000	00310400006000000000	A 5 A A A YD
0035734	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000	
0035740	73747360750000010000	73747350750000010000	05000100770000010000	00730400020000000000	A / A E A A D B
0035744	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000	
0035750	55334257353357353757	03011414511101060314	23105200000000000000	55334257353357353757	07.20.24.CALL (IAFCLSH) 07.20.24.
0035754	22052425221656110106	05305755000000000000	55334257353357353757	17162327513452550000	RETURN, IAFEX. 07.20.24. UNSW(1)
0035760	55334257353357353757	17162327513652550000	55334257353357353757	17162327514052550000	07.20.24. UNSW(3) 07.20.24. UNSW(5)
0035764	55334257353357353757	17162327514152550000	55334257353357353757	27101114055624222505	07.20.24. UNSW(6) 07.20.24. WHILE, TRUE
0035770	56141717205700000000	55334257353357354057	11010605030570000000	55334257353357354157	, LOOP. 07.20.25. IAFEX. 07.20.26.
0035774	16172355344643123336	24502235025755550000	55334257353357364157	55270111241116075506	NOS 1-8J03T/R2B. 07.20.36. WAITING F
0036000	17225516052427172213	57000000000000000000	55334257353457333357	16011555552605225534	OR NETWORK. 07.21.00. NAM VER 1
0036004	57354655223502550000	55334257353457333357	55160524271722135503	17161605032405045700	.2- R2B 07.21.00. NETWORK CONNECTED.
0036010	00000000000000000000	55334257344057363657	07052456233123050457	00000000000000000000	07.15.33. GET, SYSED.
0036014	55334257344057363757	03011414562331230504	57550000000000000000	55334257344057363757	07.15.34. CALL, SYSED. 07.15.34.
0036020	01242401031051233123	02111652000000000000	55334257344057363757	01242401031051230523	ATTACH(SYSBIN) 07.15.34. ATTACH(SES
0036024	02111632525500000000	55334257344057363757	22052425221651140717	56111652000000000000	BINZ) 07.15.34. RETURN(LGO, IN)
0036030	55334257344057363757	23251151353741520000	55334257344057363757	07052451132217163534	07.15.34. SUI(246) 07.15.34. GET(KRON21
0036034	56132217163534045616	17235255000000000000	55334257344057364057	23312305041124511154	, KRON21D, NOS) 07.15.35. SYSEDT(I=
0036040	23312305045603520000	55334257344057374457	23312324051555050411	24550317152014052405	SYSED, C) 07.15.49. SYSTEM EDIT COMPLETE
0036044	55465503100116070555	34575555555555555555	00000000000000000000	55334257344057403357	- CHANGE 1. 07.15.50.
0036050	16011555552605225534	57354655223502550000	55334257353457344257	55160524171655031715	NAM VER 1.2- R2B 07.21.17. NETON COM
0036054	20140524055700000000	55334257353457344257	26052223111716553457	35570000000000000000	PLETE. 07.21.17. VERSION 1.2.
0036060	55334357403657364057	2503152356555553433	37435740424113251623	57000000000000000000	08.53.35. UCMS, 1048.576KUNS.
0036064	55343357354257363657	2503152356555553433	37435740424113251623	57000000000000000000	10.27.33. UCMS, 1048.576KUNS.
0036070	55343457404057353357	55141102220122315525	20040124050455465522	15240123131456552315	11.55.20. LIBRARY UPDATED - RMTASKL, SM
0036074	13354242335700000000	5534357344257333557	2503152356555553433	37435740424113251623	K2770. 12.17.02. UCMS, 1048.576KUNS
0036100	57000000000000000000	55343757333357334357	2503152356555553433	37435740424113251623	. 14.00.08. UCMS, 1048.576KUNS
0036104	57000000000000000000	55344057374257354257	2503152356555553433	37435740424113251623	. 15.47.27. UCMS, 1048.576KUNS
0036110	57000000000000000000	55334257353357373757	17162327513752550000	55334257353357373757	. 07.20.44. UNSW(4) 07.20.44.
0036114	22061456343533333333	57550000000000000000	55334257353357373757	24010616011534570000	RFL, 120000. 07.20.44. TAFNAM1.
0036120	55334257353457333657	55233120225516172455	06172516045655012455	33414242373757550000	07.21.03. SYPR NOT FOUND, AT 067744.
0036124	55334257353457333657	55040211045516172455	06172516045655012455	33414242354257550000	07.21.03. DBID NOT FOUND, AT 067727.
0036130	55334257353457333757	55353433405555552717	22042355220521251122	05045506172255011120	07.21.04. 2105 WORDS REQUIRED FOR AIP
0036134	55141701041116075755	00000000000000000000	55334257353457333757	55011120552325030305	LOADING. 07.21.04. AIP SUCC
0036140	23230625141431551417	01040504570000000000	55334257353457333757	55240402110455161724	SSFULLY LOADED. 07.21.04. TDBID NOT
0036144	55061725160456555501	24553342333334365755	00000000000000000000	55334257353457344257	FOUND, AT 070013. 07.21.17.
0036150	55344157353557373757	14111605005514353555	55555556051656353556	01345616170405365555	16.22.44. LINE L22 ,EN,22,A1, NODE3
0036154	00000000000000000000	55344157353557404457	14111605005514354355	55555556010356354356	16.22.59. LINE L28 ,AC,28,
0036160	01345616170405365555	00000000000000000000	55344157353657333657	06221715551617040536	A1, NODE3 16.23.03. FROM NODE3
0036164	5555502205235575757	150111162405160111603	05550114012215550000	55344157353657333657	/RES ... MAINTENANCE ALARM 16.23.03.
0036170	55555555201722245535	37000000000000000000	55344157353657343657	14111605005514353755	PORT 24 16.23.13. LINE L24
0036174	55555556041656353756	01345616170405365555	00000000000000000000	55344157353657344257	,DN,24,A1, NODE3 16.23.17.
0036200	14111605005514353755	55555556051656353756	01345616170405365555	00000000000000000000	LINE L24 ,EN,24,A1, NODE3
0036204	00000000000000000000	55344157344357344457	14111605005514353355	55555556041656353356	16.18.19. LINE L20 ,DN,20,
0036210	01345616170405365555	00000000000000000000	55344157344357353457	14111605005514353355	A1, NODE3 16.18.21. LINE L20
0036214	55555556051656353356	01345616170405365555	00000000000000000000	55344157344357353557	,EN,20,A1, NODE3 16.18.22.
0036220	14111605005514354255	55555556010356354256	01345616170405365555	00000000000000000000	LINE L27 ,AC,27,A1, NODE3
0036224	55344157344457343557	14111605005514354155	55555556051656354156	01345616170405365555	16.19.12. LINE L26 ,EN,26,A1, NODE3
0036230	00000000000000000000	55344157344457373557	14111605005514353355	55555556010356353356	16.19.42. LINE L20 ,AC,20,
0036234	01345616170405365555	00000000000000000000	55344157353457344057	14111605005514354155	A1, NODE3 16.21.15. LINE L26
0036240	55555556010356354156	01345616170405365555	00000000000000000000	55344157353557373457	,AC,26,A1, NODE3 16.22.41.

RA -	E,35700,76000.	EXPRESS 11	OSDI - V2.0	79/10/30. 15.19.38.	PAGE 16
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 GLSH.	NDS 1-8J03T/R28.	NDS 1.4 STUDY DUMP.	
0036244	14111605005514353555	55555556041656353556	01345616170405365555	00000000000000000000	LINE L22 ,DN,22,A1,NODE3
0036250	55334257344057403457	03253457000000000000	55334257344057403457	15170405513352000000	07.15.51.CU1. 07.15.51.MODE(0)
0036254	55334257344057403457	03253457000000000000	55334257344057403557	03253455552315155526	07.15.51.CU1. 07.15.52.CU1 SHM V
0036260	37573346335700000000	55334257344157373557	55000000000000000000	55343757353557354357	4.0-0. 07.16.42. 14.22.28.
0036264	55000000000000000000	55343757353557364057	55000000000000000000	55343757353557364457	14.22.35. 14.22.39.
0036270	07175700000000000000	55343757353557373557	55000000000000000000	77777777777777777777	GO. 14.22.42.
0036274	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036350	55334257344057403457	15220757000000000000	55334257344057403457	15170405513352000000	07.15.51.MRG. 07.15.51.MODE(0)
0036354	55334257344057403457	15220757000000000000	55334257344057403457	15220755552315155526	07.15.51.MRG. 07.15.51.MRG SHM V
0036360	37573346335700000000	55334257344157403357	55000000000000000000	77777777777777777777	4.0-0. 07.16.52.
0036364	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036450	55334257344057403457	01143057000000000000	55334257344057403457	15170405513352000000	07.15.51.ALX. 07.15.51.MODE(0)
0036454	55334257344057403457	01143057000000000000	55334257344057403557	01143055552315155526	07.15.51.ALX. 07.15.52.ALX SHM V
0036460	37573346335700000000	55334257344157404257	55000000000000000000	77777777777777777777	4.0-0. 07.16.57.
0036464	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036550	55334257344057403457	03232557000000000000	55334257344057403457	15170405513352000000	07.15.51.CSU. 07.15.51.MODE(0)
0036554	55334257344057403557	03232557000000000000	55334257344057403557	03232555552315155526	07.15.52.CSU. 07.15.52.CSU SHM V
0036560	37573346335700000000	55334257344157364457	55000000000000000000	77777777777777777777	4.0-0. 07.16.39.
0036564	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036650	55334257344057403457	03152557000000000000	55334257344057403457	15170405513352000000	07.15.51.CMU. 07.15.51.MODE(0)
0036654	55334257344057403457	03152557000000000000	55334257344057403457	03152555552315155526	07.15.51.CMU. 07.15.51.CMU SHM V
0036660	37573346335700000000	55334257344157403357	55000000000000000000	77777777777777777777	4.0-0. 07.16.50.
0036664	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036750	55334257344057403457	22011657000000000000	55334257344057403457	15170405513352000000	07.15.51.RAN. 07.15.51.MODE(0)
0036754	55334257344057403557	22011657000000000000	55334257344057403557	22011655552315155526	07.15.52.RAN. 07.15.52.RAN SHM V
0036760	37573346335700000000	55334257344157404157	55000000000000000000	77777777777777777777	4.0-0. 07.16.56.
0036764	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0037050	55344157353457364457	22052425221656230322	57000000000000000000	55344157353457364457	16.21.39.RETURN,SCR. 16.21.39.
0037054	05162125112205561216	57000000000000000000	55344157353457364457	22171414172524563633	ENQUIRE,JN. 16.21.39.ROLLOUT,30
0037060	57000000000000000000	55344157353557334457	07172417560301241411	23245700000000000000	16.22.09.GOTO,CATLIST.
0037064	55344157353557334457	03012414112324561417	54065614542303225700	00000000000000000000	16.22.09.CATLIST,LO=F,L=SCR.
0037070	55344157353557343357	55030124141123245503	17152014052405570000	55344157353557343357	16.22.10. CATLIST COMPLETE. 16.22.10.
0037074	30050411245623032256	16105601235777145001	04353355503477740214	50010435330730507730	XEDIT,SCR,NH,AS. L/AD20 /1 BL/AD20GX/ X
0037100	00000000000000000000	55344157353557343357	21000000000000000000	55344157353557343457	16.22.10.Q 16.22.11.
0037104	22052425221656230322	57000000000000000000	55344157353557343457	05162125112205561216	RETURN,SCR. 16.22.11.ENQUIRE,JN
0037110	57000000000000000000	55344157353557343457	22171414172524563633	57000000000000000000	16.22.11.ROLLOUT,30.
0037114	55344157353557363457	53012424010310560104	35330730570000000000	55344157353557364157	16.22.31.\$ATTACH,AD20GX. 16.22.36.
0037120	01043533073056445603	57000000000000000000	57000000000000000000	55344157353457334157	AD20GX,9,C. 16.21.06.
0037124	22171414172524563633	57000000000000000000	55344157353457364157	07172417560301241411	ROLLOUT,30. 16.21.36.GOTO,CATLI
0037130	23245700000000000000	55344157353457364157	03012414112324561417	54065614542303225700	ST. 16.21.36.CATLIST,LO=F,L=SCR.
0037134	00000000000000000000	55344157353457364257	55030124141123245503	17152014052405570000	16.21.37. CATLIST COMPLETE.
0037140	55344157353457364257	30050411245623032256	16105601235777145001	04353355503477740214	16.21.37.XEDIT,SCR,NH,AS. L/AD20 /1 BL
0037144	50010435330730507730	00000000000000000000	55344157353457364257	21000000000000000000	/AD20GX/ X 16.21.37.Q
0037150	55334257344057403457	06232457000000000000	55334257344057403457	15170405513352000000	07.15.51.FST. 07.15.51.MODE(0)
0037154	55334257344057403457	06232457000000000000	55334257344057403457	06232455552315155526	07.15.51.FST. 07.15.51.FST SHM V
0037160	37573346335700000000	55334257344157374057	55000000000000000000	55334257344157374257	4.0-0. 07.16.45. 07.16.47.
0037164	55000000000000000000	77777777777777777777	77777777777777777777	77777777777777777777	
0037170	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0037250	55344057404057333557	53031001220705564234	40435642361637443333	33570000000000000000	15.55.02.\$CHARGE,7158,73N49000.
0037254	55344057404057343557	53012424010310560520	14260522570000000000	55344057404057344157	15.55.12.\$ATTACH,EPLVER. 15.55.16.

0037260 53030114145605201420 35570000000000000000 55344057404057344357 22052425221656240120 %CALL,EPLP2. 15.55.18.RETURN,TAP  
 0037264 05355755000000000000 55344057404057344357 06111405562401200535 56222454325602245403 E2. 15.55.18.FILE,TAPE2,RT=Z,BI-C  
 0037270 56061454433357550000 55344057404057344357 2206145641333333357 00000000000000000000 ,FL=80. 15.55.18.RFL,60000.  
 0037274 55344057404057344357 21255755000000000000 55344057404057344457 24244240565501232311 15.55.18.QU. 15.55.19.TT75, ASSI  
 0037300 07160504552417553232 32323211165700000000 55344057404057344457 24244240565501232311 GNED TO ZZZZZIN. 15.55.19.TT75, ASSI  
 0037304 07160504552417553232 32323217255700000000 55344057404057363457 55221555060124011455 GNED TO ZZZZZOU. 15.55.31. RM FATAL  
 0037310 33333341551716551406 1655323232322213655 00000000000000000000 55344057404157334057 0006 ON LFN ZZZZZO3 15.56.05.  
 0037314 55221555052222172255 33334155333455151722 05552411150523551716 55323232323221360000 RM ERROR 006 01 MORE TIMES ON ZZZZZQ3  
 0037320 55344157353657363357 11065157161724575106 11140551240120053556 01235252525507175524 16.23.30.IF(.NOT.(FILE(TAPE2,AS))) GO T  
 0037324 17563401020357550000 00000000000000000000 00000000000000000000 00000000000000000000 O,IABC.  
 0037330 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0037350 15011116240516011603 05550114012215550000 55344157353657333557 55555555201722245535 MAINTENANCE ALARM 16.23.02. PORT 2  
 0037354 37000000000000000000 55344057343357403357 06221715551617040536 55555022052355575757 4 15.10.50.FROM NODE3 /RES ...  
 0037360 15011116240516011603 05550114012215550000 55344057343357403357 55555555201722245533 MAINTENANCE ALARM 15.10.50. PORT 0  
 0037364 36000000000000000000 55344057343757333757 06221715551617040536 55555022052355575757 3 15.14.04.FROM NODE3 /RES ...  
 0037370 15011116240516011603 05550114012215550000 55344057343757333757 55555555201722245534 MAINTENANCE ALARM 15.14.04. PORT 1  
 0037374 04000000000000000000 55344057344157333557 06221715551617040536 55555022052355575757 D 15.16.02.FROM NODE3 /RES ...  
 0037400 15011116240516011603 05550114012215550000 55344057344157333557 55555555201722245535 MAINTENANCE ALARM 15.16.02. PORT 2  
 0037404 35000000000000000000 5534405734457403757 06221715551617040536 55555022052355575757 2 15.49.54.FROM NODE3 /RES ...  
 0037410 15011116240516011603 05550114012215550000 55344057374457403757 55555555201722245534 MAINTENANCE ALARM 15.49.54. PURT 1  
 0037414 04000000000000000000 55344057403457343657 06221715551617040536 55555022052355575757 D 15.51.13.FROM NODE3 /RES ...  
 0037420 15011116240516011603 05550114012215550000 55344057403457343657 55555555201722245534 MAINTENANCE ALARM 15.51.13. PORT 1  
 0037424 04000000000000000000 55344057403757353757 06221715551617040536 55555022052355575757 D 15.54.24.FROM NODE3 /RES ...  
 0037430 15011116240516011603 05550114012215550000 55344057403757353757 55555555201722245534 MAINTENANCE ALARM 15.54.24. PORT 1  
 0037434 04000000000000000000 55344157334357334057 06221715551617040536 55555022052355575757 D 16.08.05.FROM NODE3 /RES ...  
 0037440 15011116240516011603 05550114012215550000 55344157334357334057 55555555201722245534 MAINTENANCE ALARM 16.08.05. PORT 1  
 0037444 04000000000000000000 55344157353657333557 06221715551617040536 55555022052355575757 D 16.23.02.FROM NODE3 /RES ...  
 0037450 55344157344357403657 53031001220705563435 34405640371336353641 57000000000000000000 16.18.53.%CHARGE,1215,54K3236.  
 0037454 55344157344357404457 53070524560420232257 00000000000000000000 55344157344457333657 16.18.59.%GET,DPSR. 16.19.03.  
 0037460 53050411245604202322 57000000000000000000 00000000000000000000 00000000000000000000 %EDIT,DPSR.  
 0037464 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0037550 55334257344057403457 03243657000000000000 55334257344057403457 15170405513352000000 07.15.51.CT3. 07.15.51.MODE(0)  
 0037554 55334257344057403457 03243657000000000000 55334257344057403457 03243655552315155526 07.15.51.CT3. 07.15.51.CT3 SMM V  
 0037560 37573346335700000000 55334257344157373457 55000000000000000000 77777777777777777777 4.0-0. 07.16.41.  
 0037564 77777777777777777777 77777777777777777777 77777777777777777777 77777777777777777777

0037650 55344157353657344257 14172205165624424242 57550000000000000000 55344157353657344257 16.23.17.LOREN,1777. 16.23.17.  
 0037654 25030322565514344024 34555556555555555555 33573642401303042357 00000000000000000000 UCCR, L15T1 , 0.375KCDS.  
 0037660 55344157353657344257 25230522512202063752 00000000000000000000 55344157353657344257 16.23.17.USER(RBF4) 16.23.17.  
 0037664 03100122070551423440 43564213160244334333 52550000000000000000 55344157353657344257 CHARGE(7158,7KNB9080) 16.23.17.  
 0037670 06241657000000000000 55344157353657354257 555555553657373637 55032055230503171604 FTN. 16.23.27. 3.434 CP SECOND  
 0037674 23550317152011140124 11171655241115050000 55344157353657354257 14071757000000000000 S COMPILATION TIME 16.23.27.LGO.  
 0037700 55344157353657354457 55555555232417205555 00000000000000000000 55344157353657354457 16.23.29. STOP 16.23.29.  
 0037704 55555555555557364344 55032055230503171604 23550305030325241117 16552411150555550000 .389 CP SECONDS EXECUTION TIME  
 0037710 55344157353657354457 25050104565555555555 55335733333513251623 57000000000000000000 16.23.29.UEAD, 0.002KUNS.  
 0037714 55344157353657354457 25052006565555555555 55335733334013251623 57000000000000000000 16.23.29.UEPF, 0.005KUNS.  
 0037720 55344157353657354457 25051523565555555555 55415737444113251623 57000000000000000000 16.23.29.UEMS, 6.496KUNS.  
 0037724 55344157353657354457 25050320565555555555 55375740333723050323 57000000000000000000 16.23.29.UECP, 4.504SECS.  
 0037730 55344157353657354457 01052322565555555555 55445742443525162423 57000000000000000000 16.23.29.AESR, 9.792UNTS.  
 0037734 20252207055604171605 14171350251654152306 14110256160157000000 55344157344457343557 PURGE,DONELQK/UN=MSFLIB,NA. 16.19.12.  
 0037740 55041716051417135516 17245506172516045655 55012455333333343534 57550000000000000000 DONELQK NOT FOUND, AT 000121.  
 0037744 55344157344457343557 22052605222457554704 17160547550317152014 05240557000000000000 16.19.12.REVERT. \*DONE\* COMPLETE.  
 0037750 55334257353357404157 03011414512202060314 23105200000000000000 55334257353357404257 07.20.56.CALL(RBFCLSH) 07.20.57.  
 0037754 23251156354237425755 00000000000000000000 55334257353357404257 2206145140333333352 SUI,2747. 07.20.57.RFL(50000)  
 0037760 00000000000000000000 55334257353357404257 27221124050651220206 22171414525555555522 07.20.57.WRITEF(RBFROLL) R

RA -	E,35700,76000.	EXPRESS 11	DSDI - V2.0	79/10/30.	15.19.38.	PAGE	18
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4	STUDY DUMP.		
0037764	02065506145522171414	17252455061114055755	00000000000000000000	55334257353357404257	BF FL ROLLOUT FILE.		07.20.57.
0037770	22020635203357550000	55334257353357404257	23240122245522020655	55260522553457354655	RBF2PO.	07.20.57.	START RBF VER 1.2-
0037774	55374443000000000000	55334257353457333357	16011555552605225534	57344655553744430000	498	07.21.00.	NAM VER 1.1- 498
0040000	55334257353457333357	16052417165501030305	20240504000000000000	55343557344357344157		07.21.00.	NETON ACCEPTED 12.18.16.
0040004	250315235655553433	37435740424113251623	57000000000000000000	77777777777777777777	UCMS,	1048.576KUNS.	
0040010	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777			
0040050	55334257344057403457	15010716052457550000	55334257344057403557	15244040560334365655	07.15.51.MAGNET.		07.15.52.MT55,C13,
0040054	24252216050455170606	57000000000000000000	55334257344057403557	15244041560334365655	TURNED OFF.		07.15.52.MT56,C13,
0040060	24252216050455170606	57000000000000000000	55334257344057403557	15244042560334365655	TURNED OFF.		07.15.52.MT57,C13,
0040064	24252216050455170606	57000000000000000000	55334357353557333557	55000000000000000000	TURNED OFF.		08.22.02.
0040070	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777			
0040150	22052055423656553335	57000000000000000000	55343757344457354157	02132055423556553340	REP 73, 02.		14.19.26.BKP 72, 05
0040154	57000000000000000000	55343757353557344357	22052055423756553335	57000000000000000000	.		14.22.18.REP 74, 02.
0040160	55343757353757364457	22052055423656553334	57000000000000000000	55344057333357353357	14.24.39.REP 73, 01.		15.00.20.
0040164	22221655423756553333	57000000000000000000	55344057333457344257	22221655423756553333	RRN 74, 00.		15.08.17.RRN 74, 00
0040170	57000000000000000000	55344057343457333657	22052055423756553334	57000000000000000000	.		15.11.03.REP 74, 01.
0040174	55344057363457403457	22052055423656553335	57000000000000000000	55344057363757334457	15.31.51.REP 73, 02.		15.34.09.
0040200	22052055423456553334	57000000000000000000	55344157343457404157	22052055423656553340	REP 71, 01.		16.11.56.REP 73, 05
0040204	57000000000000000000	57000000000000000000	55343357334457353757	22052055423656553334	.		10.09.24.REP 73, 01
0040210	57000000000000000000	55343357344157373357	22052055423656553334	57000000000000000000	.		10.16.40.REP 73, 01.
0040214	55343457363357353757	22052055423656553335	57000000000000000000	55343457373457364257	11.30.24.REP 73, 02.		11.41.37.
0040220	22052055423456553335	57000000000000000000	55343557363457403557	02132055423756553340	REP 71, 02.		12.31.52.BKP 74, 05
0040224	57000000000000000000	55343557403357373457	22052055423656553442	57000000000000000000	.		12.50.41.REP 73, 17.
0040230	55343657334257334157	05160455374256553334	57000000000000000000	55343657343757403457	13.07.06.END 47, 01.		13.14.51.
0040234	22221655423656553333	57000000000000000000	55343657344057403657	22052055423656553435	RRN 73, 00.		13.15.53.REP 73, 12
0040240	57000000000000000000	55343657403557373457	22052055423456553334	57000000000000000000	.		13.52.41.REP 71, 01.
0040244	55343757343357344357	02132055423556553333	57000000000000000000	55343757343557344457	14.10.18.BKP 72, 20.		14.12.19.
0040250	55334257353457364357	03011414512324155200	00000000000000000000	55334257353457364357	07.21.38.CALL (STM)		07.21.38.
0040254	47550422172057550000	55334257353457364357	16172205222516570000	55334257353457364457	* DROP.	07.21.38.	NORERUN. 07.21.39.
0040260	55161755111620252455	06111405550617251604	57000000000000000000	55334257353457364457	NO INPUT FILE FOUND.		07.21.39.
0040264	47552205212505232456	17205703100503135505	21553740000000000000	55334257353457364457	# REQUEST,OP.CHECK EQ 45		07.21.39.
0040270	22052425221651172052	00000000000000000000	55334257353457364457	23251156354237425755	RETURN(OP)		07.21.39.SUI,2747.
0040274	00000000000000000000	55334257353457364457	01242401031056232405	15061114575500000000			07.21.39.ATTACH,STEMFIL.
0040300	55334257353457364457	16170530112457550000	55334257353457364457	34564755000000000000	07.21.39.NOEXIT.		07.21.39.1,*
0040304	55334257353457364457	23052451050654335255	00000000000000000000	55334257353457364457	07.21.39.SET(EF=0)		07.21.39.
0040310	22052425221656232405	15172524575500000000	55334257353457364457	23240515561614543437	RETURN,STEMOUT.		07.21.39.STEM,NL=14
0040314	56215755000000000000	55334257353457364457	55232405155546552022	17030523231116075523	,Q.	07.21.39.	STEM - PROCESSING S
0040320	24051506111400000000	55334257353457374157	55232405155546550515	25140124111716551116	STEMFIL	07.21.46.	STEM - EMULATION IN
0040324	11241101240504000000	55334257353457374157	55241115055523240115	20555455554037435554	ITIATED	07.21.46.	TIME STAMP = 548 =
0040330	55334257353457374157	00000000000000000000	77777777777777777777	77777777777777777777			07.21.46.
0040334	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777			
0040350	55344157353557404457	01172031333441245755	22052711160456323435	36374041575500000000	16.22.59.AOPY016T.		REWIND,2123456.
0040354	55344157353557404457	01172031333441245755	40450611160556160222	41042201575500000000	16.22.59.AOPY016T.		DEFINE,NBR6DRA.
0040360	55344157353557404457	01172031333441245755	03172031563234353637	40415616022241042201	16.22.59.AOPY016T.		COPY,2123456,NBR6DRA
0040364	57550000000000000000	55344157353657333357	01172031333441245755	55051711550516031725	.		16.23.00.AOPY016T. EQI ENCOU
0040370	16240522050457000000	55344157353657333357	01172031333441245755	22052425221656323435	ENTERED.	16.23.00.	AOPY016T. RETURN,212
0040374	36374041575500000000	55344157353657333357	01172031333441245755	16172405511725242025	3456.	16.23.00.	AOPY016T. NOTE (OUTPU
0040400	24525023012605045503	17152014052405570000	55344157353657333357	01172031333441245755	T)/SAVED COMPLETE.	16.23.00.	AOPY016T.
0040404	05301124575500000000	55344157353657334257	01133711333433245755	53202522070556202422	EXIT.	16.23.07.	AK41010T. \$PURGE,PTR
0040410	41343356202422413434	56202422413435570000	55344157353657343457	01133711333433245755	610,PTR611,PTR612.	16.23.11.	AK41010T.
0040414	53171404562405152057	00000000000000000000	55344157353657343557	01172031333441245755	\$OLD,TEMP.	16.23.12.	AOPY016T.
0040420	53030114145607052404	51061654160222410422	01570000000000000000	55344157353657343557	\$CALL,GETD (FN=NBR6DRA.		16.23.12.
0040424	01172031333441245755	01242401031056160222	41042201575500000000	55344157353657343657	AOPY016T.	ATTACH,NBR6DRA.	16.23.13.
0040430	01172031333441245755	22052425221656323435	36374041575500000000	55344157353657343657	AOPY016T.	RETURN,2123456.	16.23.13.



RA =	E,35700,76000.	EXPRESS 11	DSDI - V2.0	79/10/30. 15.19.38.	PAGE 19
0000000	CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.		NOS 1-8J03T/R28.	NOS 1.4 STUDY DUMP.	
0040434	01172031333441245755	03172031561602224104	22015632343536374041	57550000000000000000	AOPYO16T. COPY,NBR6DRA,Z123456.
0040440	55344157353657343657	01172031333441245755	55051711550516031725	16240522050457000000	16.23.13.AOPYO16T. EOI ENCOUNTERED.
0040444	55344157353657343657	01172031333441245755	22052711160456160222	41042201563234353637	16.23.13.AOPYO16T. REWIND,NBR6DRA,Z1234
0040450	40415755000000000000	55344157353657343657	55344157353657343657	22052425221656160222	56. 16.23.13.AOPYO16T. RETURN,NBR
0040454	41042201575500000000	55344157353657343657	01172031333441245755	03172031563234353637	6DRA. 16.23.13.AOPYO16T. COPY,Z1234
0040460	40415616022241042201	57550000000000000000	55344157353657343757	01172031333441245755	56,NBR6DRA. 16.23.14.AOPYO16T.
0040464	55051711550516031725	16240522050457000000	55344157353657343757	01172031333441245755	EOI ENCOUNTERED. 16.23.14.AOPYO16T.
0040470	22052425221656323435	36374041575500000000	55344157353657343757	01172031333441245755	RETURN,Z123456. 16.23.14.AOPYO16T.
0040474	16172405511725242025	24525007052404550317	15201405240557550000	55344157353657344157	NOTE(OUTPUT)/GETD COMPLETE. 16.23.16.
0040500	01142531333442245755	16170530112457000000	55344157353657344157	01142531333442245755	ALUYO17T. NOEXIT. 16.23.16.ALUYO17T.
0040504	01242401031056305407	42220521501554275700	00000000000000000000	55344157353657344157	ATTACH,X=G7REQ/M-W. 16.23.16.
0040510	01142531333442245755	11060556061114055130	56571617245701235256	24225700000000000000	ALUYO17T. IFE,FILE(X,.NOT.ASI),TR.
0040514	55344157353657344157	01142531333442245755	05160411065624225700	00000000000000000000	16.23.16.ALUYO17T. ENDIF,TR.
0040520	55344157353657344157	01142531333442245755	17160530112457000000	55344157353657344157	16.23.16.ALUYO17T. ONEXIT. 16.23.16.
0040524	22021001033012055755	14172205165624424242	57550000000000000000	55344157353657344157	RBHACXJE. LOREN,T777. 16.23.16.
0040530	01142531333442245755	03172031560742220521	56305626570000000000	55344157353657344257	ALUYO17T. COPY,G7REQ,X,V. 16.23.17.
0040534	22020731033011055755	14172205165624424242	57550000000000000000	55344157353657344257	RBGYCXIE. LOREN,T777. 16.23.17.
0040540	22021001033012055755	25230522512202064052	00000000000000000000	55344157353657344257	RBHACXJE. USER(RBF5) 16.23.17.
0040544	22020731033011055755	25230522512202063752	00000000000000000000	55344157353657344257	RBGYCXIE. USER(RBF4) 16.23.17.
0040550	22021001033012055755	03100122070551423440	43564213160244334333	52550000000000000000	RBHACXJE. CHARGE(7158,7KNB9080)
0040554	55344157353657344257	01142531333442245755	55051711550516031725	16240522050457000000	16.23.17.ALUYO17T. EOI ENCOUNTERED.
0040560	55344157353657344257	22020731033011055755	03100122070551423440	43564213160244334333	16.23.17.RBGYCXIE. CHARGE(7158,7KNB9080
0040564	52550000000000000000	55344157353657344257	01142531333442245755	55260522110631550717	) 16.23.17.ALUYO17T. VERIFY GO
0040570	17045700000000000000	55344157353657344257	22021001033012055755	06241657000000000000	OD. 16.23.17.RBHACXJE. FTN.
0040574	55344157353657344257	22020731033011055755	06241657000000000000	55344157353657344357	16.23.17.RBGYCXIE. FTN. 16.23.18.
0040600	01142531333442245755	22052425221656305607	42220521563307422205	21570000000000000000	ALUYO17T. RETURN,X,G7REQ,OG7REQ.
0040604	55344157353657344357	01142531333442245755	20252207055633074222	05215635074222052150	16.23.18.ALUYO17T. PURGE,OG7REQ,2G7REQ/
0040610	16015700000000000000	55344157353657344357	01142531333442245755	22052605222457550504	NA. 16.23.18.ALUYO17T. REVERT. ED
0040614	11241116075503171520	1405240557555074222	05215522052722112424	00000000000000000000	ITING COMPLETE. G7REQ REWRITE
0040620	55344157353657344357	01142531333442245755	05165700000000000000	55344157353657344457	16.23.18.ALUYO17T. EN. 16.23.19.
0040624	01172031333441245755	53050411245616022241	04220156012357000000	55344157353657354257	AOPYO16T. \$EDIT,NBR6DRA,AS. 16.23.27.
0040630	22021001033012055755	5555555553657373541	55032055230503171604	23550317152011140124	RBHACXJE. 3.426 CP SECONDS COMPILAT
0040634	11171655241115050000	55344157353657354257	22021001033012055755	14071757000000000000	ION TIME 16.23.27.RBHACXJE. LGO.
0040640	55344157353657354257	22020731033011055755	5555555553657373637	55032055230503171604	16.23.27.RBGYCXIE. 3.434 CP SECON
0040644	23550317152011140124	11171655241115050000	55344157353657354257	22020731033011055755	S COMPILATION TIME 16.23.27.RBGYCXIE.
0040650	14071757000000000000	55344157353657354457	22021001033012055755	55555555232412055555	LGO. 16.23.29.RBHACXJE. STOP
0040654	00000000000000000000	55344157353657354457	22021001033012055755	5555555555557364434	16.23.29.RBHACXJE. .391
0040660	55032055230503171604	23550530050325241117	16552411150555500000	55344157353657354457	CP SECONDS EXECUTION TIME 16.23.29.
0040664	22020731033011055755	55555555232417205555	00000000000000000000	55344157353657354457	RBGYCXIE. STOP 16.23.29.
0040670	22020731033011055755	5555555555557364344	55032055230503171604	23550530050325241117	RBGYCXIE. .389 CP SECONDS EXECUTIO
0040674	16552411150555500000	55344157353657363357	01124031333437245755	11065157161724575106	N TIME 16.23.30.AJ5Y014T. IF(.NOT.(F
0040700	11140551240120053556	01235252525507175524	17563401020357550000	04112320172305560317	ILE(TAPE2,ASI)) GO TO,ABC. DISPOSE,CO
0040704	20315420225700000000	55344157353557403357	01012511333434245755	53300504412456141123	PY=PR. 16.22.50.AAUI011T. \$EDIT,LIS
0040710	24570000000000000000	55344157353557404357	01172031333441245755	53030114145623012605	T. 16.22.58.AOPYO16T. \$CALL,SAVE
0040714	04510616541602224104	22015700000000000000	5534415735357404357	01172031333441245755	O(FN=NBR6DRA. 16.22.58.AOPYO16T.
0040720	22052425221656323435	36374041575500000000	5534415735357404357	01172031333441245755	RETURN,Z123456. 16.22.58.AOPYO16T.
0040724	22052711160456160222	41042201575500000000	5534415735357404357	01172031333441245755	REWIND,NBR6DRA. 16.22.58.AOPYO16T.
0040730	03172031561602224104	22015632343536374041	57550000000000000000	5534415735357404457	COPY,NBR6DRA,Z123456. 16.22.59.
0040734	01172031333441245755	55051711550516031725	16240522050457000000	5534415735357404457	AOPYO16T. EOI ENCOUNTERED. 16.22.59.
0040740	01172031333441245755	07172417563432343536	37405755000000000000	5534415735357404457	AOPYO16T. GOTO,Z12345. 16.22.59.
0040744	01172031333441245755	34323435363740562205	24252216561602224104	22015755000000000000	AOPYO16T. Z12345,RETURN,NBR6DRA.
0040750	1114025655231232405	15305655570000000000	55344157353657344257	16260633010223235755	ILB, SYSTEMX, . 16.23.17.NVFOABSS.
0040754	01020120565503345655	0104353333335651617	23031423105655143543	24345755000000000000	ABAP, C1, AD2000, NOSCLSH, L281T.
0040760	55344157353657344257	16260633010223235755	0102012056550335655	11010657000000000000	16.23.17.NVFOABSS. ABAP, C2, IAF.
0040764	55344157353657344257	22021001033012055755	01020316565542344043	56554213160244334333	16.23.17.RBHACXJE. ABCN, 7158, 7KNB9080
0040770	57000000000000000000	55344157353657344257	22020731033011055755	01020316565542344043	. 16.23.17.RBGYCXIE. ABCN, 7158
0040774	56554213160244334333	57000000000000000000	55344157353657344257	01141531333340245755	, 7KNB9080. 16.23.17.ALMY005T.

0041000	01022516565501043533	33335655161723031423	10570000000000000000	55344157353657344357	ABUN, AD2000, NOSCLSH.	16.23.18.
0041004	01142531333442245755	23202007565533074222	05215655565557000000	55344157353657344357	ALUYO17T. SPPG, OG7REQ, , .	16.23.18.
0041010	01142531333442245755	23202007565535074222	05215655565557000000	55344157353657344357	ALUYO17T. SPPG, 2G7REQ, , .	16.23.23.
0041014	01141531333537245755	25030317565555555555	55375733444113031023	57550000000000000000	ALMYO24T. UCCO, 4.096KCHS.	
0041020	55344157353657353757	01124031333437245755	23200124565505201423	24012456555655570000	16.23.24.AJ5Y014T. SPAT, EPLSTAT, , .	
0041024	55344157353657353757	01012511333434245755	25030317565555555555	55375733444113031023	16.23.24.AAUI011T. UCCO, 4.096KCHS	
0041030	57550000000000000000	55344157353657354357	01110231333440245755	25030317565555555555	. 16.23.28.AIBYO15T. UCCO,	
0041034	55345735364113031023	57550000000000000000	55344157353657354357	01110231333440245755	1.236KCHS. 16.23.28.AIBYO15T.	
0041040	25030311565555555555	55335734434113031023	57550000000000000000	55344157353657354357	UCCI, 0.186KCHS. 16.23.28.	
0041044	01110231333440245755	25230104565555555555	55335733333413251623	57550000000000000000	AIBYO15T. USAD, 0.001KUNS.	
0041050	55344157353657354357	01110231333440245755	25232006565555555555	55335733344313251623	16.23.28.AIBYO15T. USPF, 0.018KUNS	
0041054	57550000000000000000	55344157353657354357	01110231333440245755	55344157353657354357	. 16.23.28.AIBYO15T. USMS,	
0041060	55335744443313251623	57550000000000000000	55344157353657354357	01110231333440245755	0.990KUNS. 16.23.28.AIBYO15T.	
0041064	25230320565555555555	55335743404323050323	57550000000000000000	55344157353657354357	USCP, 0.858SECS. 16.23.28.	
0041070	01110231333440245755	01232322565555555555	55355733413325162423	57550000000000000000	AIBYO15T. ASSR, 2.060UNTS.	
0041074	55344157353657354357	01110231333440245755	01232424565512200435	33334256551617230314	16.23.28.AIBYO15T. ASTT, JPD2007, NOSCL	
0041100	23105700000000000000	55344157353657354457	22021001033012055755	25050104565555555555	SH. 16.23.29.RBHACXJE. UEAD,	
0041104	55335733333513251623	57000000000000000000	55344157353657354457	22021001033012055755	0.002KUNS. 16.23.29.RBHACXJE.	
0041110	25052006565555555555	55335733334013251623	57000000000000000000	55344157353657354457	UEPF, 0.005KUNS. 16.23.29.	
0041114	22021001033012055755	25051523565555555555	55415737443713251623	57000000000000000000	RBHACXJE. UEMS, 6.494KUNS.	
0041120	55344157353657354457	22021001033012055755	25050320565555555555	55375740343423050323	16.23.29.RBHACXJE. UECP, 4.511SECS	
0041124	57000000000000000000	55344157353657354457	22021001033012055755	01052322565555555555	. 16.23.29.RBHACXJE. AESR,	
0041130	5544574333325162423	57000000000000000000	55344157353657354457	22020731033011055755	9.800UNTS. 16.23.29.RBGYCXIE.	
0041134	25050104565555555555	55335733333513251623	57000000000000000000	55344157353657354457	UEAD, 0.002KUNS. 16.23.29.	
0041140	22020731033011055755	25052006565555555555	55335733334013251623	57000000000000000000	RBGYCXIE. UEPF, 0.005KUNS.	
0041144	55344157353657354457	22020731033011055755	25051523565555555555	55415737444113251623	16.23.29.RBGYCXIE. UEMS, 6.496KUNS	
0041150	57000000000000000000	55344157353657354457	22020731033011055755	25050320565555555555	. 16.23.29.RBGYCXIE. UECP,	
0041154	5537574033723050323	57000000000000000000	55344157353657354457	22020731033011055755	4.504SECS. 16.23.29.RBGYCXIE.	
0041160	01052322565555555555	55445742443525162423	57000000000000000000	34555565555555555555	AESR, 9.792UNTS. 1	
0041164	33574244331314162357	00000000000000000000	55344157353657333757	22020701032731055755	0.790KUNS. 16.23.04.RBGACHYE.	
0041170	25031420565514343324	34555565555555555555	33574244331314162357	00000000000000000000	UCLP, L10T1 , 0.790KUNS.	
0041174	55344157353657334157	01141531333537245755	25030317565555555555	55375733444113031023	16.23.06.ALMYO24T. UCCO, 4.096KCHS	
0041200	57550000000000000000	55344157353657334257	01133711333433245755	23202007565520242241	. 16.23.07.AK4I010T. SPPG, PTR6	
0041204	34335655565557000000	55344157353657334257	01133711333433245755	23202007565520242241	10, , . 16.23.07.AK4I010T. SPPG, PTR6	
0041210	34345655565557000000	55344157353657334257	01133711333433245755	23202007565520242241	11, , . 16.23.07.AK4I010T. SPPG, PTR6	
0041214	34355655565557000000	55344157353657334357	0323333301022235755	2303141656555553433	12, , . 16.23.10.CS00ABRS. SCLN, 10	
0041220	56550334565555363656	555555335655553356	555555540236570000	55344157353657343357	, C1, 33, 0, 0, 573. 16.23.10.	
0041224	0323333301022235755	2303141656555553433	5655033556555555534	34445536354241435555	CS00ABRS. SCLN, 10, C2, 119 32768	
0041230	55433344570000000000	55344157353657343457	01133711333433245755	23200724565524051520	809. 16.23.11.AK4I010T. SPGT, TEMP	
0041234	56555655570000000000	55344157353657343557	01172031333441245755	23200124565516022241	, , . 16.23.12.AOPYO16T. SPAT, NBR6	
0041240	04220156555655570000	55344157353657344057	16260633010223235755	01022516565501043533	DRA, , . 16.23.15.NVFOABSS. ABUN, AD20	
0041244	33335655161723031423	10565514354324345755	00000000000000000000	55344157353657344057	00, NOSCLSH, L28T1. 16.23.15.	
0041250	0323333301022235755	2303141656555553433	5655033456555533756	5555553356555553356	CS00ABRS. SCLN, 10, C1, 24, 0, 0,	
0041254	55555555373334570000	55344157353657344057	0323333301022235755	2303141656555553433	401. 16.23.15.CS00ABRS. SCLN, 10	
0041260	56550335565555555555	40435535363544355555	55364135570000000000	55344157353657344057	, C2, 58 23292 362. 16.23.15.	
0041264	0323333301022235755	2303240556555553433	5655033456555533756	5555553356555553356	CS00ABRS. SCTE, 10, C1, 24, 0, 0,	
0041270	5555553356553333457	00000000000000000000	55344157353657344057	0323333301022235755	0, 001. 16.23.15.CS00ABRS.	
0041274	2303240556555553433	5655033556555555536	4442565555555554042	5655555555555535700	SCTE, 10, C2, 397, 57, 0.	
0041300	00000000000000000000	55344157353657344157	01142531333442245755	23200124565507422205	16.23.16.ALUYO17T. SPAT, G7RE	
0041304	21565556555700000000	55344157353657344157	22021001033012055755	25030322565514343724	Q, , . 16.23.16.RBHACXJE. UCCR, L14T	
0041310	34555556555555555555	33573642401303042357	00000000000000000000	55344157353657344257	1 , 0.375KCHS. 16.23.17.	
0041314	22020731033011055755	25030322565514344024	34555556555555555555	33573642401303042357	RBGYCXIE. UCCR, L15T1 , 0.375KCHS.	
0041320	00000000000000000000	55344157353657344257	01141531333537245755	25030317565555555555	16.23.17.ALMYO24T. UCCO,	
0041324	55375733444113031023	57550000000000000000	55344157353657344257	22021001033012055755	4.096KCHS. 16.23.17.RBHACXJE.	
0041330	01022516565522020640	56551617230314231057	00000000000000000000	55344157353657344257	ABUN, RBF5, NOSCLSH. 16.23.17.	
0041334	22020731033011055755	01022516565522020637	56551617230314231057	00000000000000000000	RBGYCXIE. ABUN, RBF4, NOSCLSH.	
0041340	55344157353657344257	22021001033012055755	23200124565520221706	11140256552331232405	16.23.17.RBHACXJE. SPAT, PROFILB, SYSTE	

0041344 1530565557000000000 55344157353657344257 22020731033011055755 23200124565520221706 MX, . 16.23.17.RBGYCXIE. SPAT, PROF  
0041350 5533553357000000000 55344157353657333557 16233333010221235755 16273333456555343356 0 0. 16.23.02.NS00ABQS. NW01, 10,  
0041354 5536353755333733353 5533553357000000000 55344157353657343657 16233333010221235755 324 04020 0 0. 16.23.13.NS00ABQS.  
0041360 1627333456555343356 55343537553353343353 5533553357000000000 55344157353657344357 NW01, 10, 124 0 080 0 0. 16.23.18.  
0041364 16233333010221235755 1627333456555343356 3642354155335335353 5533553457000000000 16233333010221235755 NS00ABQS. NW01, 10,3726 0 0 0 0  
0041370 55344157353657353457 16233333010221235755 1627333456555343356 3642354255335335353 16.23.21.NS00ABQS. NW01, 10,3727 0 0 0  
0041374 5533553457000000000 55344157353657353757 16233333010221235755 1627333456555343356 0 1. 16.23.24.NS00ABQS. NW01, 10,  
0041400 3642353455335335353 5533553457000000000 55344157353657354457 16233333010221235755 3721 0 0 0 1. 16.23.29.NS00ABQS.  
0041404 1627333456555343356 3642353455335335353 5533553457000000000 55344157353657354457 NW01, 10,3721 0 0 0 1. 16.23.29.  
0041410 16233333010221235755 1627333456555343356 3642354255335335353 5533553457000000000 NS00ABQS. NW01, 10,3727 0 0 0 1.  
0041414 16233333010221235755 1627333456555343356 553355375533033353 55335535700000000 NS00ABQS. NW01, 10, 324 0C020 0 0.  
0041420 55344157353657333557 16233333010221235755 1627333456555343356 5505353755330533353 16.23.02.NS00ABQS. NW01, 10, E24 0E020  
0041424 5533553357000000000 55344157353657333557 16233333010221235755 1627333456555343356 0 0. 16.23.02.NS00ABQS. NW01, 10,  
0041430 5505353755334133353 5533553357000000000 55344157353657333557 16233333010221235755 E24 06020 0 0. 16.23.02.NS00ABQS.  
0041434 1627333456555343356 553635375533733353 5533553357000000000 55344157353657333557 NW01, 10, 324 04020 0 0. 16.23.02.  
0041440 16233333010221235755 1627333456555343356 5505353755330533353 5533553357000000000 NS00ABQS. NW01, 10, E24 0E020 0 0.  
0041444 55344157353657333557 16233333010221235755 1627333456555343356 5505353755334133353 16.23.02.NS00ABQS. NW01, 10, E24 06020  
0041450 6313750063120562007 127761011504010511 00000000000077620054 11162025240000001520 K JE,PGJ AMDA MI -INPUT MP  
0041454 17252420252400001520 00000067753603770224 01227374037702260040 4737037022401227456 OUTPUT MP ,C BTAR C BV 5 4C BTAR ,  
0041460 03770225010174710377 02240106750361576157 40716441522071016504 65046521631256730000 C BUAA C BTAF C .5 6JP A D D Q J,  
0041464 00000000051130140407 14666010305510061601 62101447020003360100 67361412020020170100 EIXL DGL HX HFNA HL\*8 C3A 3LJB PUA  
0041470 17003053340110060667 1014230077734011413 03620100711414056005 30541006060414003407 X\$IAHFF HLS LALK A LLE EX-HFFDL IG  
0041474 03073054170134071602 31053406305312373446 30531240344536073105 60303306051350007200 CGX-DAIGNBYEIFX\$J41-X\$J51+3GYE XOFEK/  
0041500 04063077637072000200 66630100711430301006 07123033220037772300 16240404230003000545 DFX B A LXXHFGJXOR 4 S NTDD S C E+  
0041504 0200720603420000000 0000000000001007205 30463145340430311277 33040406303110710466 B FC7 A EX-Y+10XYJ 0DOFYX H  
0041510 33040562303010060612 30450510303110710452 30312200404005463031 12773304050730312200 ODE XXHFFJX+EHXYH DIXYR 55E-XYJ ODEGX YR  
0041514 77003104114003073031 12771014310411401006 34131402341230076313 03365600175330143446 YDISCGXYJ HLYDISHFIKLBJXG KC3, 01XLI-  
0041520 05143615031261120556 01000420773300002612 60200070001340100010 00005712021200650000 EL3MCJ JE,A DP VJ P K5H H .JBJ  
0041524 30776204147202000336 37144471310754000631 03301617112514231043 0000001200377772331 \$ B D 4 CXNOIULSH8 J 4 SY  
0041530 23240515300000000002 00000000200615600011 00000110710600220000 00130000000040060134 STEMX B PFM I AH F R K 5FA1  
0041534 00024511450300010100 10000003400054305431 54320000000000000000 0000000120004110000 B+I+C AA H C5 =X=Y=Z J DI  
0041540 10560100551503140100 24730334010054211400 34134471020007660370 54000613477107053107 H,A MCLA T CIA =QL 1K9 B G C = FK\* GEYG  
0041544 530006310403020000671 14040200075371076103 05325000056003355400 064510635400006404771 \*F YDCB F LDB G\$ G CEZ/ E C2= F+H = F5\*  
0041550 07053107230011770403 02000671407104032000 00001135020007537307 67760516500005636607 GEYGS I DCB F 5 DCP I2B G\$ G EN/ E G  
0041554 06517547540006701412 02000753140171070013 05253013052401005515 06073076601030100574 F1 \*= F LJB G\$LA G KEUXKETA MFGX HXHE  
0041560 30776204147202000336 37144471310754000631 030403315400010407300 07663012041020000753 X DL B C34L9 YG= FYDCY= ADB G XJDJB G\$  
0041564 70472200200034130563 14104511307716016010 140102000753140472007 00110521500006710100 \*R P IKE LH+IX NA HLAB G\$LO G IEQ/ F A  
0041570 06517407200005020100 06616407105376071601 65070747067401001053 01000574500001103410 F( GP EBA F G\$ GNA GG\*F A H\$A E / AH1H  
0041574 33130471137710060734 05113010121004067647 16010703640710043077 62041433020003364500 OKD K HFGIEIXHJHDF \*NAGC GHDX DLOB C3+  
0041600 50101035340036103014 17070570307760043010 44110340301344710317 06120644065106530662 /HH21 3HXLOGE X DXH9IC5XK9 COFJF9F(F\$F  
0041604 07220740074707540756 07601003100610231431 01000263500001031064 21001401540007345000 GRG5G\*G=G,G HCHFHSLYA B / ACH Q LA= G1/  
0041610 05545400077401000507 20061500107300000710 0100161500377770037 77772331232405153037 E=- G A EGPFM H GHA NM 4 4 SYSTEMX4  
0041614 77772303220000000000 00022022170611140201 00462331232405153000 00002305032522252300 SCR BPROFILBA -SYSTEMX SECURUS  
0041620 01660000000000000000 00000000000000000013 00000000000000000000 00000000000000000000 A K  
0041624 00004200000000000000 00000000000000000000 00000000000000000000 00000000000000000000 7  
0041630 00000000000000000000 00000000000000000000 00000077001300021664 42000000000000000000 K BN 7  
0041634 00000000000000000000 000000004113400706213 000100000000000000000 00000000000000000000 DII K A  
0041640 0000000000001001746 30551006210001100371 01001270306034112000 00003412140334131457 A 0-X HFQ AHC A J X IIP IJLCIKL.  
0041644 02000336036314033411 14510200033630110404 14760200033650001243 04143457140154001503 B C3C LCIL(B C3XIDL B C3/ J8DL1.LA= MC  
0041650 20001504341520330406 02000476307763731355 14023411140034121460 02000336030414360200 50001367340140013432 P MDIMPDOFB D X K LBIL IJL B C3CDL3B  
0041654 03360100011400160076 00220000000000200052 0024000000000003433 50001367340140013432 C3A AL N R P ) T 10/ K 1A5A1Z  
0041660 12033402010214020307 03130307203620100200 04760200127102000566 03670200127103640000 JC1BABLBCGCKCGP3PHB D B J B E C B J C  
0041664 0000000000001004143 54001433307763701125 17016040304313773443 A 68= LOX IUOA 5X8K 18L 19C A L9  
0041670 140031025200214660400 53001635040414023502 03675002146734020102 00001710207436513750 L 18/BL D \$ N2DDL2B2C /BL 1BAB OHP 3(4/  
0041674 24472677525252110000 01001477140034033402 34003006107521007777 60103006120334015001 T\*V )]]] A L L 1C1B1 XFH O HXFJCI A/A  
0041700 00101006061210713406 50000106350310633502 36000353107134073503 10633502360001001477 MHFFJH 1F/ AF2CH 2B3 C\$H 1G2CH 2B3 A L  
0041704 02001271020012626010 16016040146660203014 22001776110134143013 13773413307134223041 B J B J HMA 5L PXL R 0 IAILKXK IKX IRX6





0042620 04000417776100046000 10755567310200042472 51170000206130042175 43203151120200042225 D DO D H YB DT (O P XQD 8PY(JB DRU  
0042624 71100000012015012551 04000425006100046000 72646360737274627262 03060426347264637351 H APMAU(D DU D CDFV1 (  
0042630 03070426440316042472 63550045004263476110 71600000042065213256 20150125210400042500 CGDV9CNDT + 7 \* H DP QZ,PMAUQD DU  
0042634 51400426422012254241 10544226024370256420 20753433525122000005 53653203225476111434 (50V7PJU76H-7VB8 U PP 10)R E1 ZCR= IL1  
0042640 21244126412270256620 51720000100400042500 14042220000000000060 14042254000000000100 QT6V6R U PI HD DU LDRP LDR= A  
0042644 43645635505130041766 06540425460615042546 15056766105623520622 36506434722120215424 8 ,2/(XDO F=DU-FMDU-ME H,S)FR3/ 1 QPQ-T  
0042650 2123462647777623712 20051514700010520644 04610425460320042655 20601032204265546000 Q5V-V\* 4JPEML HJF9D DU-CPDV P HZP7 -  
0042654 03120426557171000000 12553113640616042664 03030425460330042500 031704252161564654640 CSDV J YK FNDV CCDU-CXDU CODUNM -5  
0042660 76310032704266243614 51470000621116420122 20136137771261354750 56635040004177746000 Y Z 7 T3L(+ IN7ARPK 4 J 2\*/ , /5 6  
0042664 05600426671264654640 03300425000307042660 04000425166100046000 03030426650307042665 E DV J -5CXDU CGDV D DUN D CCDV CGDV  
0042670 43144115150400042472 20422635501544043614 06540425466265000005 06150425465623511762 8L6MMD DT P7V2/H9D3LF-DU- EFMU-,S(O  
0042674 22602030204270076310 03170427001272321236 6352006540254654720 06150425465623510622 R PXP7 G HCODW J ZJ3 ) 57= \*PFMDU-,S(IFR  
0042700 07460425466264777767 06600427030266042712 76410040004271246000 51670000300400042714 G-DU- F DWC8 DWJ 6 5 7 T ( X D DWL  
0042704 51670000350400042716 04000427126100046000 04000427126100046000 04000427126100046000 ( 2D DWND DWJ D D DWJ D D DWJ D  
0042710 76410040004271246000 71400000036100046000 51100417667605020430 12110125140400042500 6 5 7 T 5 C D (HDD EBDXJIAULD DU  
0042714 5432105220000222703 106225407615066000002 54321542312270311602 54761137005467156731 -ZMBP RWCH U\* / B-ZM7YR YNB= I4 = M Y  
0042720 04000417776100046000 72646057726254577163 03060425430550042472 43222563202026615632 D DO D . -. CFDO8E/DT 8RU PPV ,Z  
0042724 20522114251555212646 20552566200400042735 63550205230335042730 56731040004242346000 P)QLUM QV-P U PD DW2 BESC2DWX, H5 771  
0042730 06150425460654042546 56235202730332041776 51270000222023015320 FMDU-F=DU-,S)8 CZDO (W RPSASP AGT4 A  
0042734 03340421770400042423 43652514004176615256 51370001052152263550 C1DQ D DTS8 UL 6 ),(4 AEQ)V2/PX(E9G+DU-  
0042740 03020427410333042500 12552045004251620236 76550106220615042546 56635040004264446000 CBDW6CODU J P+ 7( B3 AFRFMDU-, /5 7 9  
0042744 71310000002035012553 04000424726100046000 51270000225147000101 21244152207222770016 Y P2AUSD DT (W R(+ AAQT6)P R N  
0042750 20411164420324042472 63550205520615042546 06540425467315056335 63530213220615042546 P6I 7CTDT BEIFMDU-F=DU- ME 2 )BKRFFMDU-  
0042754 73430213226363527506 06560425460664042546 61600001006330066535 07640425466130042772 8BKR ) FF,DU-F DU- A 8F 2G DU- XDW  
0042760 03110422745120000020 43300156205615020606 03310427721041120151 61607775777637077616 CIDR (P P8XA,P,MBFFCYDW H6JA( 4G N  
0042764 03310427722012343501 73716032704254653471 10644546100614042776 54111674410311042765 CYDW PJ12A Z 7= 10H +-HFLDW -IN 6CIDW  
0042770 04000427766100046000 00040425467430042423 73744633300334042546 37676435010326042546 D DW D DDU- XDTS -OXC1DU-X 2ACVDU-  
0042774 53143655156160042776 04000447226100046000 54430126544370054630 02000417766100046000 -SL3 M DW D D\*R D -8AV=8 E-X8 DD D  
0043000 72645466740316045072 51270000225137000077 21244514700010115220 20362722277001620411 = CND/ (W R(4 QT+L HI)PP3WRW A DI  
0043004 16232122240322042472 63550205520615042546 06540425466365056335 06160425460664042546 NSQRTCRDT BEIFMDU-F=DU- E 2FNDU-F DU-  
0043010 21336151305345321314 63646066404254663440 4710425466150000100 10544767106130043017 0(XS+ZKL 57= 15G6DU- / A H=\* H XDXD  
0043014 11773133370303042274 04000425466100046000 00150425460016043035 501200000600754042546 I Y04CCRD DU- D MDU- NDX2/J G-DU-  
0043020 63560031704302120136 63310211220430043032 15110636100764043033 66634075604303453233 , Y 8BJA3 Y8IRDXXZMIF3HG DXO 5 8C+Z0  
0043024 03120430356451254141 67441655156160043027 04000447226100046000 10755766105472046000 CJDX2 JM66 9N M DXWD D\*R D H . H= D  
0043030 54430430361140443700 12646546300400041776 71600000110400043030 71600000070400043030 -8DX3I594 J -XD DO ID DXX GD DXX  
0043034 71600000030400043030 54550205237160000005 03250430300400042423 51200000505117000022 CD DXX= BES ECUDXXD DTS(P / (O R  
0043040 21144156107236770016 03330424720302043056 63550766700615042546 71300076000654042546 QL6,H 3 NCODT CBDX, G FMDU- X F=DU-  
0043044 53453105446130043054 20437205221544312646 51170000207245434544 21151725576767611131 \$+YE9 XDX=P8 ERM9YV-(O P +8+9QMOU. IY  
0043050 72117767770331043052 53220532200302041776 15545206350335042043 04000425466100046000 I CYDX)\$REZPCBDD M=JF2C2DP8D DU- D  
0043054 13777030104305654740 54750020004177746000 51100417620311041776 76670546100400041776 K XH8E \*5= P 6 (HDD C1DO E=HD DO  
0043060 63550061504254621530 06540425461545046000 6264777764060043064 02660430776100046000 /7= MXF=DU-M+D F DX 8 DX D  
0043064 61300431040400042150 51100000310400043077 51100000300400043077 51100000260200043077 XDYDD DQ/(H YD DX (H XD DX (H VB DX  
0043070 51100001060200043101 51100001060400043077 5110000270400043077 61300431120400042150 (H AFB DYA(H AFD DX (H WD DX XDYJD DQ/  
0043074 04000430646100046000 61300000410400043115 61300000430400043115 10611437005663556731 D DX D X 6D DYM X 8D DYM L4 , Y  
0043100 04000417776100046000 43230513004177215612 24203206142770644372 26643221460400043077 D DO D 8SEK 6 Q,JTPZFLW 8 V ZQ-D DX  
0043104 61400431065120042173 04000445636100046000 51200417716535127106 42621407215130041772 50YF(PDQ D D+ D (PDD 2J F7 LGQ(XDD  
0043110 26507404362051412154 04000430776100046000 51200417735117000050 V/ D3P(6Q-D DX D (PDD (O /8 Q.OWH \$(  
0043114 40121040004307746000 43102653510400043077 63550205446165000020 06150425465110043131 5JH5 8C 8HV\$(D DX BE9 PFMDU-(HDY  
0043120 06640425461565023216 03120425464343054750 03060431305622066535 26101674256100046000 F DU-M BZNCJDU-88E\*/CFDYX,RF 2VHN U D  
0043124 1062220101562454221 03210431246361055324 07600417771522411343 36232040004312446000 H RAA +7QCQDYT ESTG DO MR6K835P5 8J9  
0043130 56235654220400043124 37600200000000000002 03100431365010000060 21130562212124463710 ,S,-RD DYT4 B BCHDY3/H KE QOT-4H  
0043134 03020420125352163320 03150424410400041777 72107777600321043142 43730157075230044611 C8DPJ\$(N)OPCMDT6D DO H CQDY78 A.G)XD-I  
0043140 21730636306377013777 02660000006100046000 53500261456154001741 04000432256100046000 Q F3X A4 B D \$/B + = 06D DZU D  
0043144 61300431450400042150 52210000205130000106 20203614004177743730 63710666200322043152 XDY+D DQ/ )Q (PX AFFP3L 6 4X F PCKDY)  
0043150 55221154371522737242 7170000006032042322 51200000411633720244 37432033404315766540 RI=4MR 7 FCRDSR(P 6NO B948P058M 5  
0043154 51200417636140042343 1366672327237554620 03330431575262000000 05700421260244000000 (PDD 5DS8K SW 4 -PCODY.) E UQVB9  
0043160 51170000202010256271 03210417772124453521 43322114350304041777 61300431640400042150 (O PPHU CQDD QT+2Q8ZQL2CDDO XDY D DQ/









0044440 54210437605110010016 26202151122625146000 0400044146100046000 50430000061563515445 =QD4 (HA NVPQ(JVUL D D9L D /8 FM (==  
0044444 03070444510327044447 73771031704456142764 03060444473777446000 272042711012420244772 CGD9(CWD9\* HY 9,LW CFD9\*4 9 WP7 GTPT\*  
0044450 26727227276100046000 73271634713733276710 37662207570336044540 23615617077771720360 V MW D WNI 40W H4 RG.C30+5S ,0G C  
0044454 67361152364357011363 53223510004431246000 03010444644327215016 15212210026222000070 3I)38.AK \$RZH 9YT CAD9 8WQ/NMQRHB R  
0044460 202026332020153406 633232224504022034 66337152202363643001 03220445611166454640 PPVOPPPHIF ZZRT-DBP1 0 )PS XACRD+ I +-5  
0044464 54221126250306044464 75426246262040246000 62640037247646212334 03300444720400044561 =RIVUCFD9 7 -VP5T 4T -QSICXD9 D D+  
0044470 54221616600000412625 03060444702462676462 23627126265462054100 23634126617642754610 =RNN 6VUCFD9 T S VV= E6 S 6V 7 -H  
0044474 20402674416334054220 20401540206334312625 05400444714346164440 15134606300002011643 P5V 6 1E7PP5M5P 1YVUE5D9 8-N95MK-FX BANB  
0044500 75526727100400012665 21102643202061454250 20444074304450377546 15224763105463012727 I WHD AV QHV8PP +7/P95 X9/4 -HR+ H= AMW  
0044504 73551040004454346000 73410204565224044055 03240445072023646000 63320262620400044546 H5 9-1 68D,JD5 CTD+GPS ZB D D+  
0044510 71700200000301044035 23415151144337276510 12331207576333020172 73270235352020253416 B CAD5256(1L84W HJOJG. OBA WB22PPU1N  
0044514 63320112542535211773 13645114541555713454 03040445250430044527 030204442132141076310 ZAJ=R1)O K (L-M 1=CDD+UDXD+WCBD7KQ6G H  
0044520 0314044522137754640 03300445400400044213 13773203435423120730 36727164730304044520 CLD+RK -5CXD+5D D7KK ZC8-SJGX3 CDD+P  
0044524 54720134440400044520 03050442137671076310 20744435010400044543 52230443162030215562 = A19D D+PCE07K G HP 92AD D+8)SD8NPPXQ  
0044530 63430203016343443461 54230204141124223444 17664154741355421504 03150442137631017737 8BCA 891 =SBDLITR190 6= K 7MDCMD7K YA 4  
0044534 3672704000445246000 77601516004175210711 01300445366100046000 10677023300000046000 3 5 919 MN 6 QGIAXD+3 D H SX D  
0044540 54250763102021446000 03220445431043320462 05230000151262454620 50430000021564321444 =UG HPQ9 CRD+8H8ZD /S MJ +-P/8 BM ZL9  
0044544 03140442135464054750 02550000006100046000 61500442326100046000 20130433624327015313 CLD7K= E+/B D /D7Z D PKDO 8WA+K  
0044550 52430057202633777677 43560153451104620303 03200442135243000002 15642214445333020130 J8 .P 8,A+ID CCCPD7K)8 BM RL9)8BAX  
0044554 03140442130460044556 54440766105464013264 03020445701521520114 60630000207371020144 CLD7KD D+,-9G H= AZ CBD+ MQJAL P BA9  
0044560 15115023300000046000 61500442320200044213 76110271012410145212 26706431142770711116 MI/SX D /D7ZB D7K IB ATHL)JV YLW IN  
0044564 24707211144172227101 41112267672276726161 61660000142216136617 02440000006100046000 T IL6 R A6IR R LRNK DB9 D  
0044570 54550437011277554750 03350442130255000000 04000000000000000000 51500417535335121560 =D4AJ \*/C2D7KB (1D-E QN3XB D  
0044574 00010432240000000000 000000000000000000 01000000026100046000 51500417535335121560 ADZT D B D (/D0)2JM  
0044600 54431205066160044603 21344145555313021444 63550634400400044717 13777511000013176210 8JEF D-CQ16+ \$KBL9 FL5D D\*OK I KO H  
0044604 36612546100400044227 00000000000000044577 00000000000000044561 00000000000000044561 3 U-HD D7M D+ D+ D+  
0044610 00000000000000044561 00000000000000044561 00000000000000043144 00000000000000043160 D+ D+ D+ D+ D+ D+  
0044614 00000000000000043166 00000000000000043167 00000000000000043173 00000000000000043200 DY DY DY DY DY DY  
0044620 00000000000000043202 00000000000000043202 00000000000000043206 00000000000000043215 D2B D2B D2F D2M  
0044624 00000000000000044735 00000000000000044212 00000000000000044212 00000000000000044212 D\*2 D7J D7J D7J  
0044630 60000445610000043235 40000445610000043317 70000445610000043343 60000445610000043404 D+ DZ25 D+ D00 D+ D08 D+ D10  
0044634 00000445610000043757 00000442560000044221 40000445610000043414 00000445610000041776 D+ D4. D7. D7Q5 D+ D1L D+ D0  
0044640 40000445610000043572 40000445610000043574 00000443330000044221 00000445610000045044 5 D+ D2 5 D+ D2 D80 D7Q D+ D79  
0044644 00000443330000043240 00000445610000043711 00000445610000043744 00000444040000044221 D80 DZ5 D+ D4I D+ D49 D9D D7Q  
0044650 00000445610000043745 00000445050000044007 40000445610000044152 00000445610000044005 D+ D4+ D+E D5G5 D+ D6) D+ D5E  
0044654 40000445610000043461 00000442500000044221 00000445610000044063 40000445610000044111 5 D+ D1 D7/ D7Q D+ D5 5 D+ D6I  
0044660 40000445610000043611 00000443170000044221 00000446730000043362 00000442420000044221 5 D+ D3I D80 D7Q D- D0 D77 D7Q  
0044664 00000445610000043511 00000456750000044221 00000445610000044212 00000000000000044212 D+ D2I D, D7Q D+ D7J D7J  
0044670 13777053004422746000 54331672750313044677 547500400004423246000 6335010311615077772 K \$ 9R -ON CKD- = 5 9ST 2ACI /  
0044674 2052061707777643270 03350445616160044670 67275053004467754351 10633213300303044671 P)F0G Z C2D+ D- W/\$ 9 8(H ZKXCCD-  
0044700 11423031404470163237 53762672210620044701 03040446716343553160 51400447157461063240 17XY59 NZ4\$ V QFPD+ACDD- 8 Y (5D+M FZ5  
0044704 43752770051566736060 20636150071266054141 06420447117614076044 20103437703611015017 8 W EM P /GJ E66F7D+I LG 9PH14 3IA/D  
0044710 11171200322015412110 12761366645574167442 46400447146100046000 07040447060266000000 10J ZPM6QHJ K N 7-5D+L D GDD+FB  
0044714 00447373007000737305 00000001000000000100 00500000000000000000 06500447035140044715 9 E A A / F/D+C(5D+M  
0044720 6324075012144473604 04000447046100046000 76140760442010343670 36110150161116120032 TG/JL9+3DD D\*D D LG 9PH13 3IA/NINJ Z  
0044724 74610201541211043752 75015156671500720636 12010126065160044731 46400447316100046000 00000000000000000000 B  
0044730 02660000006100046000 00120457560000045776 00000000000000000000 03010417772045776230 23334137132020354710 /HD\*ZT00 HCADD P+ XS064KPP2+H  
0044740 70200054010400043142 60407777165710421130 13215030204177774001 61400000225311456274 B -AD DY7 5 N.H7IXKQ/XP6 5A 5 R6I+  
0044744 53354264422665373330 26161110030313044755 06640447516100046000 06650417776450027655 \$27 7V 40XVNIHCKD+ F D+( D F DO /B  
0044750 51600447340400041777 03070447540645041777 52150000206375046000 04000420566100046000 ( D\*1D DO CGD\*-F+D0 JM P D D DP, D  
0044754 06540447520400041777 03000447510400044747 60407777160470044776 57404214306244000000 F=D\*)D DO C D+(D D++ 5 ND D+ .57LX 9  
0044760 04470447270336044775 5117000022666163410 5010000060524400002. 21130635100457044775 D\*0\* C3D\* (O RV N1H/H )9 RQKF2HD.D+  
0044764 52110000226054773010 26131054004477146000 0736044770075604477 04000447756100046000 )I RVE+XHVKH= 9 L G3D\* G,D\* D D+ D  
0044770 07530447770400044775 6450105450447726654 0763044775031004477. 06530447756450027657 G3D D D+ /H=-/9 -G D\* CHD\* FSD+ /B .  
0044774 51600447346100046000 63630261457140007600 02660000006100046000 60307330447601057103 ( D\*1 D B + 5 B D X X9 AE C  
0045000 61300417770400044224 0000000200000000000 0004502100000000000 0000000500000000000 XDD D D7T B D/Q E

0045004 70070000000000000000 00000000000000000000 00000000000000000000 0004500100000000000000 G D/A  
0045010 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

---

0045020 00000000000000000000 00000000000000000000 00000000000000000000 04000000026100046000  
0045024 00004154000576000000 00000000000000000001 00777700000000045024 70070000000000000000 6= E A D/T G B D  
0045030 00000000000000000000 00000000201071000000 00000000000000000000 00000000001453777734 PH L\$ I  
0045034 777777777777777770000 00000000000000000000 00000000000000000000 0200000000020100000 B PH  
0045040 77777777777700000000 000000000000000000766 03241120000000001451 02000000000120100050 G CTIP L/B APH /  
0045044 20127434606361010611 04600450476140000004 0646045057040004212 72757717577205770000 PJ 1 AFID D/+ 5 DF-D/ .D D7J O. E  
0045050 20115157071501421673 72307777661173754351 03270442125315055211 20173137326150041777 P I(.GMA7N X I 8(CWD7J\$ME)IPOY4Z /DO  
0045054 03210445705230043450 15776201010317044212 04000450616100046000 05610450602167311161 CQD+ XDI/M AACOD7JD / D E D/ Q YI  
0045060 52310434435110000110 26363152342356120344 11525154344370122464 0336045066263520360 YD18(H AHV3Y)15,JC9I)(+18 JT C30/ VZC  
0045064 23657636302266613525 15316144440313045070 37614767100305045070 54610547500400041777 S 3XR 2UMY 99CKD/ 4 + HCED/ = E+/D DO  
0045070 20745106115475054651 04000417776100046000 72645454717274545474 03060452120317042472 P (FI= E-(D DO D == == CFDU)JCOOT  
0045074 63550514700002120552 06150425467264747777 43214112215147000064 03060425467770446000 EL BJE)FMDU- 9)NL U LCFDU- 9  
0045100 06140425462020266535 63320433715117000102 43214112215147000064 03020451062013043601 FLDU-PPV 2 ZDO (O AR8Q6JQ(+ CBD(FPKD3A  
0045104 03310451061266120644 03140425465061000000 5127000072343473150 15643202607266777770 CYD(FJ JF9CLDU- / (W S8+Y/M ZB  
0045110 27531112626130045121 03060451650332042274 43001545502005112650 54650200467157000000 W\$IJ XD(QCFD( CZDR 8 M+/PEIV/- B -.  
0045114 04000452006100046000 56150717000000311101 12671201561377754610 03210425460400041776 D D) D ,MGO YIAJ JA,K -HCODU-D DO  
0045120 77730451700044045165 52430000501344573140 03110451155042000072 52130000511220463660 D( 9D( 18 /K9.Y5CID(M/7 )K (JP-3  
0045124 5147000102261120411 03260451300334045130 51470000222043015440 72447700160334045112 (\* AAR JDICVD(XCID(X(+ RP8A=5 9 NC1D(J  
0045130 63310030204516521122 03310451651521043666 04300451650613045174 62417777752112256450 Y XP+N)IRCYD( MOD3 DXD( FKD( 6 QJU /  
0045134 61330000020640045137 20452154467264000002 37662032604254663441 71447776767367477736 O BF5D(4P+Q-- B4 PZ 7= 16 9 + 3  
0045140 03260425467327411442 7211000004373076250 03240451740301045150 27242360136140000020 CVDU- W6L7 I B G /CTD( CAD(WTS K 5 P  
0045144 616014766200656045174 61600451473766056120 63560040004472246000 26242430606352043730 (\* PF,D( D(+4 E P , 5 9 T VITX 1D4X  
0045150 51170000715147000074 20114117746333315110 12771561505773165513 26635545506160045150 D( (+ PI60 OY(HJ M / . N KV +/ D( I  
0045154 73650556710400044722 52130000514300176210 50420000721260154610 36742511700006454740 E, D D\*R)K (8 O H/7 J M-H3 UI F+\*5  
0045160 22232366211075554610 43030207235110041767 15550217731261546000 70527777571167654650 RSS QH -H8CBGS(HDO M BO J = ) .I -/  
0045164 04000455466100046000 56150116012015713777 03210424237140000005 12664546100400041776 D D 9 D ,MANAPM 4 CQDTS 5 EJ +-HD DO  
0045170 56150734507170000011 11101031404517276710 12617137775461054750 04000417776100046000 ,MGJ / I(HHY5+OW HJ 4 = E+/D DU D  
0045174 56150712000000311101 36621546106100046000 70527777571377776000 52730000506100046000 ,MGJ YIA3 M-H D ) .K ) / D  
0045200 51200417635245000022 03120424157621120443 71303415012053512705 20352613004520612173 (PDD )+ RCJDTM QJD8 X1MAP\$(WEP2VK +P Q  
0045204 20230126120324042043 04000424236100046000 03010424235455043630 15056205235140041767 PSAVJCTDP8D DTS D CADTS= D3XME ES+5D  
0045210 13777032504177612740 54750020004242346000 51270000226365020230 06160425465113000050 K Z/6 W5= P 771 (W R B8XFNDU-(K /  
0045214 06640425461571015420 56363137477244770014 03170425460334042546 43252741304356715112 F DU-M A=P,3Y4+ 9 LCOU-CIDU-8UW6X8, (J  
0045220 71600045402044646000 51600455141244146000 43766511004551115737 51200455142037363570 +5P9 ( D LJ9L 8 I +I.4(PD LP432  
0045224 72627767175462022151 03330425467165777761 71257777570306045365 20323157302034422757 O= BQ(CODU- U CFD\$ PZY.XP17 .  
0045230 63630061504254663574 03210452350312045233 04600452356156000004 06160455040750045504 /7= 2 CQD)ZCJD)OD D)2 , DFND DG/D D  
0045234 07450455046100046000 03340452466160006021 54231635200756045506 61600077770765045506 G+D D D CID)- Q=SN2PG,D F G D F  
0045240 57151156150301045502 20607155105216000074 21506131124323011121 51200000571211521260 ,MI,MCAD BP HIN Q/ YJBSAIQ(P .J)J  
0045244 03110455001326220622 15220124460302042423 51200455122045226157 22652521400010221160 CID KVRFRMRAT-CBDTS(PD JP+R .R UQ5 HRI  
0045250 5224000020204222516 03010452535411020130 03210454736100046000 10122201060331045473 )T PP7RUNCAD)\$(=IBAXCQD= D HJRAFCD=  
0045254 20352636300326045267 71157777710311045257 076615030604526711707 03250452643350211554 P2V3XCVD) M CID). HX +V OGCUD) 8/QM=  
0045260 71110000012050213151 63610030104254653146 03310452672014463610 15520202600616045443 I AP/QY( XH7= Y-CYD) PL-3HM)BB FND=8  
0045264 15620205067327620606 03320454433725273666 03320454436100046000 20430636404357120444 M BEF W FFCZD=84UW3 CZD=8 D P8F358.JU9  
0045270 50220000442256515125 2032271557777520572 7233000006255777766 06500425460255045305 /R 9R,(IUPZHM. )E O F/DU-B D\$E  
0045274 03250453050400045503 03250453140400045324 03250453520400045324 03250453650400042546 CUD\$ED D CUD\$LD D\$TCUD\$)D D\$TCUD\$ D DU-  
0045300 03250425460400045370 03250453700400045415 03250454150400045425 03250425460400045330 CUDU-D D\$ CUD\$ D D=MCUD=MD D=CUDU-D D\$X  
0045304 03250454240400045330 43670227665012777735 15727201300307045477 15110721177001420102 CUD=TD D\$X8 BW /J 2M AXCGD= MIGO0 A7AB  
0045310 03310453136251000000 51270000642265615226 71500000640312045444 70517777550400045433 CYD\$K ( (W R )V / CJD=9 ( D D=O  
0045314 76310225636052777713 37725031604532020503 11752435702170336117 22565231611175222301 YBU )K4 /Y +ZBECI T2 Q O UR,)Y RSA  
0045320 03010454775117000112 54720676053771313555 54710030604544453160 12731547100400045444 CAD= (O AJ= F E4 Y2 = X +9+Y J M+HD D=9  
0045324 03010454777155000007 73770635337217777676 03310453367150000062 04000454446100046000 CAD= G F20 O CYD\$3 / D O=9 D  
0045330 03010454777155000001 73770542102211211312 63520033304254646000 03310455046367546000 CAD= A E7HRIQKJ )OX7= CYD D =  
0045334 06150455046352346000 07460455040332045443 61600453370400045515 10244761500315045341 FMD D )I G-D DCZD=8 D\$4D D MHT\* /CMD\$6  
0045340 62560000007261000000 53160655156160045343 76540040004472246000 10422634305314043266 , \$NF M D\$8 = 5 9 T H7V1X\$LDZ  
0045344 1521243060722277737 03320455032012237615 15360542202065236725 54610205303677543201 MOTX R 4CZD CPJS MM3E7PP S U= BEX3 =ZA

0045350 54720030304550320272 12442040004550346000 43670237625012777734 15576723177777721314 = XX+/ZB J9P5 +/1 8 B4 /J 1M. SO KL  
0045354 50227777355012000057 20230156205022000055 20111726677001616116 03210453607255000040 /R 2/J .PSA,P/R PIOV A NCO0\$ 5  
0045360 03030453625110000043 20267201571131214333 03330453637255000020 5314020122110112615 CCD\$ (H 8PV A.IYQ8OCOD\$ P\$LBARIHIVM  
0045364 20652546100400045503 51170001121366615510 516300050020305045503 67601135550400045444 P U-HD D C(0 AJK HI /CED C 12 D D=9  
0045370 76760217026267000060 76610223661273222201 61550000055012000026 13555045004537620157 BOB BS J RRA E/J VK /+ +4 A.  
0045374 03310454731567354620 04000454446100046000 03020454775012777733 15210547201160121606 CYD= M 2-PD D=9 D CBD= /J OMQE+PI JNF  
0045400 03020454445110041767 22207103115316113331 21344207140313045444 51100455131537043715 CBD=9(HDD RP C1\$NIOYQ17GLCKD=9(HD KM4D4M  
0045404 11112203444327020254 2730324343664415337 66444232421112176610 031304545050131045444 IIRC98WBB=WXZ88 96\$ 9727IJO HCKD=ECID=9  
0045410 50127777352013015710 50120000266247770014 06400454442061412716 70527777135071000000 /J 2PKA.H/J V + LF5D=9P 6WN ) K/  
0045414 04000454336100046000 76310226632060311762 03250454220301045477 71500000570317045444 D D=0 D YBV P YO CUD=RCAD= / .COD=9  
0045420 51170001123671313662 54710546200400045503 7130777760317045420 71500000610400045444 (0 AJ3 Y3 = E-PD D C X COD=P / D D=9  
0045424 43201202731242446000 71500000400324045444 71500000422670743201 036704544645313312424 8PJ8 J79 / 5C1D=9 / 7V ZACGD=9\$KYTI  
0045430 43606543304325215636 74510114242230115552 54630124450400045222 53240511000005020430 8 8X8UQ,3 (ALTRXI) = AT+D DJR\$TEI EBDX  
0045434 75733730400301042423 20020544312260212070 22704526100000354761 03030452005343346000 4X5CADTSPBE9YR QP R +VH 2\* CCD) \$81  
0045440 61600000046100046000 10644676615466154441 05600454410400045200 71500000436661043060 D D H = M96E D=6D D) / 8 DX  
0045444 54130436062056676210 15716635400324045444 22304107112030253140 036704544645313312424 =KD3FP, HM 25CTD= RX6GIPXUY5COD= P KS  
0045450 36332367732073037772 15116364431537012151 12612207527150000040 54610205660336045460 30S P C MI 8M4AQ(J RG) / 5= BE C3D=  
0045454 71500000000303045460 51100455147231776717 03330454605214000000 54730103110660045222 / CCD= (HD L Y OCOD= IL = ACIF DJR  
0045460 1265712626137754630 06600417765615067606 66511065604550754750 51200417671071121130 J VVK -XF DD ,MF F (H +/ +(PDO H JIX  
0045464 15460000207331012232 15340114040303041777 20022214065334111303 (- P YARZMIALDCCDD PBRLF\$1IKCK ZGQCNDD  
0045470 21773765600400045544 26157713577775176570 03030454336100046000 71500000440326045444 Q 4 D D 9VM K. D CCD=0 D / 9CVD=9  
0045474 50217777612043063640 20444436702216615621 03160454446100046000 71500000630400045444 /Q P8F35P993 RN ,QCND=9 D / D D=9  
0045500 625577776722577773 04500454710302045471 71500000450400045444 13555666100400045444 U D/D= CBD= / +D D=9K , HD D=9  
0045504 71500000426160777775 430600400040324046000 71500000410400045444 / 7 8F 5 +99 / 7V ZACGD=9\$KYTI  
0045510 04000423226100046000 10104000020200000000 00504000001460000000 00003567356735673567 D DSR D HH5 BB /5 L 2 2 2 2  
0045514 00000000000000001300 71340000005110045514 61400000020660045520 61400000026760646000 K 1 (HD L 5 BF D P 5 8  
0045520 7227777670332045525 231412110320103337271 03320455252120546000 03020455257170000100 W CZD USLJICPH CZD UQP= CBD U A  
0045524 37217033204552522701 10277541102224263470 37712547100266000000 06530451762152276410 4Q OP+)WAHM 6HRTV1 4 U\*H8 F\$D( Q)M H  
0045530 43066531351555012741 72617777434320615060 20566151722076612651 03000455357200777771 8F Y2M AW6 88P / P, ( P VIC D 2  
0045534 03100455437101000000 03050455377160000040 20666121166100046000 63670125450663045176 CHD 8 A CED 4 5P QN D AU+F D(  
0045540 53336360042000615232 36601127252045254750 37664460006100046000 13777546100400041776 \$0 DP J23 IWUP+U\*X 4 9 D K -HD DD  
0045544 52150000202072322311 03230455614320276310 13612215075461020357 63450233435120041757 JM PP ZSICSD 8PW HK RMG= BC. +B08(PDO.  
0045550 12623761705462020507 61300455531366663750 27006040004241746000 62710000000337042175 J 4 = BEG XD \$K 4/W 5 76 C4DQ  
0045554 04000447416100046000 51270000225235000022 26642264530745045560 03170417770754041777 D D\*6 D (W R)2 RV R \$G+D CDD G=DD  
0045560 12616546100400042056 13666270060337042175 03170417770321041777 04000447416100046000 =IF4/D DP,K FC4DQ CDD D D\*6 D  
0045564 52130000502054413515 52130000511555046000 03150441100331041776 62610000000460041776 (K /P=62M)K (M D CMD6HCYDD D DD  
0045570 04610451764360136013 62610000020663045176 54451126612270454241 53700107222044753701 D D( 8 K K BF D( =+IV R +76\$ AGRP9 4A  
0045574 54610137770324041776 51400417675313113441 21422134420314041776 36131531107160000003 J -HD DD .G D DQGM -2 = F4H(4 D(7 D  
0045600 12616546100400041776 76570760700400042107 15724635005472063710 51370000045142000004 15332154422114437434 8SAKS4 2 = E QIJO 6 7M Q(X AFMOQ=7QL8 1  
0045604 43230113233774356371 54740564211112337741 55421567215130000106 5043777732776337664 5043777732776337664 1MZI3IR D.D,KE D,KCID,M F/8 W 0  
0045610 55341532113611226363 43652204222062211662 16664546200400042112 51200456226337022132 KRO 9= M\*X8 RDRP QN N +-PD DQJ(PD,R 4BQZ  
0045620 03210423235127000016 27632546200400045601 30400460006100046000 63550435062650000020 CQDSS(W NW U-PD D,AX5D D DXX P  
0045624 06150425460664042546 07600425465040045653 56335202441063354331 53640367231130320330 53640367231130320330 FMDU-F DU-G DU-/5D,\$,0)B9H 28Y\$ C SIXZCX  
0045630 27603537413711354331 51620000161120310733 20230547713711254331 51220000041073354331 W 2464I28Y( NIPYGOPSE\* 4IU8Y(R DH 28Y  
0045634 03310425465412111202 11101366231130354771 37113543315467110733 11303102443711354331 CYDU=-JIJ8IHK SIX2+ 4I28Y= IGOIXYB94I28Y  
0045640 20130033104254620206 15330112025476112723 43663613004564654771 54331153301232373040 PK OH7= BFMOAJB= IWS8 JK + -O1\$XJZ4X5  
0045644 10733216015477154331 03160456440400042150 76310434525120000106 20351127351133554750 H ZNA= MBYCND,9D DQ/ YD) (P AF2IW2IO +/  
0045650 21522154547657036724 51720000170313042110 51620000120400042110 00000456550000045655 Q)Q=- .C T( OCKDQH( JD DQH D, D,  
0045654 00000450240000045024 00004154000576000000 0000000000000000001 00077770000000045655 D/T D/T 6= E A D,  
0045660 70070000000000000000 0000000000000000000 0000000201071000000 0000000000000000000 G PH  
0045664 00000000001760000576 00000000000000001232 0000000000000000000 00000012300000001232 D E JZ JX JZ  
0045670 0000000004000000527 0000000000000000000 0000000000000000071 01011500000005000577 D BW E D AAM E E  
0045674 0000000000000000027 7341021416130045701 03040445462140166600 03040445466130045727 E 68LL XD.ACDD+-Q5N CDD+- XD.W  
0045700 040004545466100046000 15235430705443156160 21330214301533516454 63430200106323620302 D D+- D MS=X -8M QOBLXMO( = 8B H S CB  
0045704 63540377234347063370 63740137776647413666 06400457076777446000 20704155106677112665 =C S8\*FO A4 \*63 F5D.G 9 P 6 H IV  
0045710 15514206045411112775 05700457074766647777 63565633730704045705 76310430645043000005 M(7FD=IIV E D.G\* ,D GDD.E YDX /8 E

RA = E,35700,76000.  
0000000 CM

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0

79/10/30. 15.19.41.

PAGE 31

NOS 1-8J03T/R2B.

NOS 1.4 STUDY DUMP.

0045714	13777043004571512773	20773045004571612773	15240207700302045723	66711552474346121214	K 8 + (W P X + + W MTBG CRD.S M)+H-JJL
0045720	61300457212070443072	21214207731562015124	61777777760312045733	76310131117651066400	XD.QP 9X Q07G M A(T CJD.O YAYI (F
0045724	61500442320307044543	20304541311261320751	54610547500400044232	21330613004573215335	/D7ZCGD+8PX+6YJ ZG(- E+D D7Z00FK + Q12
0045730	43461632364307213777	66710040004573546000	20744547500400044232	21102624600006053116	8-NZ38GQ4 5 + = P +D D7ZQHT FEYN
0045734	22641032604575515124	77362151142030263410	15114733311561063510	05700457400545045752	R HZ + ((T 3Q(LPXV1HMI+OYM F2HE D.5E+D.)
0045740	76150625600007020602	63411211025311622551	63560206011155363565	75612221511166521160	MFU GBFB 6J1BVI U( +BFAI 32 RQ(I )I
0045744	03260457550331045736	05700457515013000003	77562201602050215114	03210457405013000001	CVD. CYD.3E D.1/K C ,RA P/Q(L4= 14 ,1X
0045750	03260457550541045755	02330000006100046000	50130000052015246000	0000000000000000001	CVD. E6D. BO D /K EPMT CQD.5/K A
0045754	20102033104574046000	76310127370233000000	0004313200000000436	0000000000000000000	PHPOH+ D YAW480 DYZ D3 A
0045760	00777700000000045756	70070000000000000000	0000000000000000000	0000000000000000000	D., G
0045764	00000000000000000000	00000000000000000000	0000000000000000000	0000000000000000000	
0045770	00000000000000000000	00000000000000000000	0000000000000000000	0000000000000000000	N =A
0045774	00000000000000000000	00000000000000000000	0000000000000000000	0000000000000000000	
0046000	00000005000000000000	70070000000000000000	0000000000000000000	0000000000000000000	D+
0046004	00045776000000000000	00000000000000000000	0000000000000000000	0000000000000000000	E G
0046010	00000000000000000000	00000000000000000000	0000000000000000000	0000000000000000000	D.
0046014	00000000000000000000	00000000000000000000	0000000000000000000	0000000000000000000	
0046020	00777700043553046016	700700000005422000002	00000000010066000000	00000000005421000034	D2SD N G =R B DPA D N A
0046024	00000000054220043570	000000000005421003000	00000000000000000000	0000000000000000000	=Q X A =Q I
0046030	7777777777777774777	00000000000460000005	0000000000000000000	3000000000000000000	* =E EX 01
0046034	00000000000000000000	0000000000000110333	20202555053020010313	0004200100000000000	ICOPPU EXPACK DPA
0046040	00000000046037000001	00777700043553046037	700700000005432000002	00000000010756000000	D 4 A D2SD 4 G =Z B AG,
0046044	000000000005431000034	00000000000543043570	00000000000610000024	00000000000000001200	=Y I =1D2 =Y I J
0046050	00000000000000004153	7777777777777774377	000000000005431003400	00000000000000000024	6% 8 T T
0046054	34000000000000000000	00000000000000000000	0000000000000111154	20202555053020010313	1 II-PPU EXPACK
0046060	00001616001706000000	00000000000000000001	00777700000000046060	70070000000000000000	NN OF A D G N*
0046064	00000000000000000000	000000000005441000000	00000000000000000000	00000000001647007700	=6 C OK
0046070	00000000000000000000	00000000000000006103	00000000000000000000	7777777777777000000	-/ -
0046074	46500000000000000000	46700000000000000000	000000000003000524265	00010060551411006103	PPU EXPACK ND 03 X )7 A LI C
0046100	20202555053020010313	00001604001736000000	00000000000000000001	00777700000000046101	G N9 -/ - 70 26 V
0046104	70070000000000000000	00000000000000000000	000000000000541000000	00000000000000000000	- 6 70PPU EXPACK DPA D R A
0046110	000000000001644007700	00000000000000000000	00000000000000004217	00000000000000000000	/D R G DR DO 9V 9 = 9 F-
0046114	77777777777777000000	46500000000000000000	46700000000000000000	46570041710066004217	/DIL = 9 = 5B 9
0046120	46770041710066004217	20202555053020010313	00042001000000000000	00000000000000000000	5 PPU EXPACK DZT A
0046124	00777700000050046122	70070000042273041777	000000000004426776044	00000000046122000001	D 8 A = D 8 G D-500 PR W
0046130	00000000000050043414	000000000005461004400	00000000000000000000	000000000005461004400	= A D*0 / P
0046134	00000000000000005460	40020000000000000000	00000000000000000000	00044000000000000000	- Z/ W P AA
0046140	00000000000000000000	00400000000000000000	20202555053020010313	00043224000000000100	DPA P D A /D PPU EXPACK
0046144	00000000046143000001	00777700005470046143	70070000044640041777	0000000000202277727	)V 9 A A /DIL A )
0046150	00000000005471776001	00000000044733776060	00000000000077005000	00000020000000000000	9 8 5
0046154	00000000000000003250	7777777777777777727	00000000000000000000	000000000005461004400	PPU EXPACK DPA D E A D2SD E
0046160	00460000000000000000	00000020000000000000	00000000000000000000	00000000000000000000	G J B A I 1 LD2
0046164	00042001000000000000	00000000046164000001	00777700000050046164	70070000042273041777	I - J 6= Y
0046170	0000000000526776044	00000000005501776001	0000000000050043414	00000000005501005200	\$ 2 J- 9
0046174	00000000000000000000	00000000000000001644	00000000000000005500	00020000000000000000	IGCPPU EXPACK DPA D V A
0046200	00000000000000000000	00440000000000000000	00000000000000000000	00000000000000000000	/D V G DR DO 9V 9 Q 9
0046204	20202555053020010313	00042001000000000000	00000000046205000001	00777700043553046205	/DIL Q 9 9 GU
0046210	70070000000512000002	00000000010066000000	00000000005511000034	00000000005514043570	P5A 9
0046214	00000000005511004600	000000000000000001200	0000000000000004154	00000000000000003177	5 PPU EXPACK C. CO
0046220	00000000005300000035	00000000000000000035	46000000000000000000	00000000000000000000	A D + G
0046224	00000000000000110703	20202555053020010313	00042001000000000000	00000000046226000001	Y
0046230	00777700000050046226	70070000042273041777	000000000004426776044	00000000005521004400	C RC W /U OK03
0046234	00000000000050043414	00000000005521004400	00000000000000000000	00000000000000000000	
0046240	00000000000000005520	40010000000000000000	00000000000000000000	00440000000000000000	
0046244	00000000000000000000	00400000000000000000	20202555053020010313	00035765032175000000	
0046250	00000000000000000001	00777700000000046247	70070000000000000000	00000000000000000000	
0046254	0000000000531000000	00000000000000000000	00000000036422036427	00006550255521131736	

0046260 000000000000000036416 17315054000000000000 00000000000000000001 17174000000000000000 C NOY/= A005  
0046264 17245055003615055611 17326476505462761160 000000000000000003264 20202555053020010313 DT/ 3ME,IOZ /- I Z PPU EXPACK  
0046270 00042001000000000000 00000000046270000001 00777700000007046270 70070000044653041777 DPA D A GO G D-300  
0046274 00000000005226000000 00000000005541041777 000000000050041776 0000000005237004600 IV 600 /DO 14 -  
0046300 00000000000000004600 0000000000000001615 000000000000072462 00000040000000000000 - NM GT 5  
0046304 77777700000000000000 0000000000000003456 41000610110061070100 21303634301271523042 1,6 FHI GA QX31XJ 1X7  
0046310 20202555053020010313 00043224000000001006 00000000046311000001 00777700041757046311 PPU EXPACK DZT HF D I A DO.D I  
0046314 70070000000060000003 00000000010066000000 00000000076001041777 0000000000620041776 G C A G ADD FPDO  
0046320 00000000041757000600 00004000000000000000 000000000000043224 00000000000000000000 DO. F 5 DZT  
0046324 00000000000000000000 00020000000021660155 00000000000000000000 20020000000021660155 B Q A PB Q A  
0046330 00000000000000000000 20202555053020010313 00042001000000000000 00000000046332000001 PPU EXPACK DPA D Z A  
0046334 0077770004633046332 70070000000060432600 000000000061776000 000000000432601041777 D OD Z G 8V 8VADD  
0046340 0000000000420041776 00000000005237000400 00004000000000000000 000000000000020052 DPDO 14 D 5 B 1  
0046344 0000000000000432600 0000000000000002400 0000000000011660714 00000000000000000000 8V T I GL  
0046350 2000000000011660714 21303634301271523042 20202555053020010313 00042001000000000000 P I GLQX31XJ 1X7 PPU EXPACK DPA  
0046354 00000000046353000001 00777700046354046353 7007000000050432600 000000000557202015 D \$ A D =D \$ G /8V GPM  
0046360 00000000432601072126 00000000005542042050 0000000005571004600 0000000000000004600 8VAGQV 7DP/ -  
0046364 0000000000000020053 0000000000000432600 00010000000000000000 77000000000000000000 B \$ 8V A  
0046370 00000000000000000000 21012023000100000145 00005540000000000000 20202555053020010313 QAPS A A+ 5 PPU EXPACK  
0046374 00042001000000000000 000000000046374000001 00777700043546046374 70070000000560277772 DPA D A D2-D G ,B  
0046400 00000000014236000004 00000000005601000034 00000000005604043554 00000000005601002400 A73 D ,A 1 ,DD2= ,A T  
0046404 00000000000000000401 00000000000000000404 0000000000000120000 00000000042700000021 DA DD J DW Q  
0046410 00000000000000000021 24000000000000000000 00000000000000000000 00000000000000040127 QT DAW  
0046414 20202555053020010313 00001542005313000000 00000000000000000001 00777700000000046415 PPU EXPACK M7 \$K A D M  
0046420 70070000000000000000 00000000000000000000 00000000005611000000 00000000000000000000 G ,I  
0046424 00000000001514777473 14732340254565307474 03354117004766472126 00000000000000000002 ML L S5U+ X C260 + \*QV B  
0046430 00000000000000000001 000000000000000001727 00000000000000777777 34317025727444546165 A DW 1Y W) 9=  
0046434 30742710522456054037 20202555053020010313 00042001000000000000 00000000046436000001 X WH)T,E54 PPU EXPACK DPA D 3 A  
0046440 00777700041757046436 70070000000060000003 00000000010066776000 00000000432601041777 DO.D 3 G C A 8VADD  
0046444 0000000000620043570 00000000005237000600 00004000000000000000 0000000000000005605 FPDO 14 F 5 ,E  
0046450 00000365040000000000 0000000000000002400 00020000000021660155 0000000000000005601 C D T B Q A ,A  
0046454 20020000000021660155 21303634301271523042 20202555053020010313 00042001000000000000 PB Q A QX31XJ 1X7 PPU EXPACK DPA  
0046460 00000000046457000001 00777700005630046457 70070000044652041777 0000000000061777743 D . A ,XD . G D-100 8  
0046464 000000000005631000022 00000000044733044152 0000000000077002400 00000000002000000000 ,Y R D\*006) T P  
0046470 00000000000000016640 777777777777777743 00000000002000000000 0000000000000002400 A 5 B P P T  
0046474 00600001000000000000 00000000002000000000 00000000000000000000 03111700107300000340 A P CIO H C5  
0046500 01002255500014151006 06200200154116066010 30251006351210633511 10633510020015411606 A R / LMHFFPB M6NF HXUHF2JH ZIH 2HB M6NF  
0046504 62103045120204365000 11001601050630201277 34050200150350001314 22007477230003005400 HX+JBD3/ I NAEFXPJ 1EB MC/ KLR S C =  
0046510 13141402342420000000 05043044101506031404 35240100130030241214 10750437340130442200 KLLB1TP EDX9HMFCLD2TA K XTJLH D41AX9R  
0046514 01741140050520006740 54001214304423000640 04122300060004073044 22006000530114053444 A ISEEP 5= JLX9S F50JS F DGX9R \$ALE19  
0046520 30431374530114103443 30450526010013001404 34245000141510060616 02001541160660301400 X8K \$ALH18X+EVA K LD1T/ LMHFFNB M6NF XL  
0046524 34303431307134320200 15411606623030451377 04031007062014003410 34113412306012373413 1X1YX 1ZB M6NF XX+K DCHGFPL 1H111JX J41K  
0046530 30613414020015411602 62101601621050001405 05073020127734053021 02001526362412772300 X 1LB M6NB HNA H/ LEEGXPJ 1EXQB MV3TJ S  
0046534 00003424305704026220 14013544305205053044 22001777344402001541 62401401341130251075 ITX.DB PLA29XIEEX9R O 19B M6 5LAI1XUH  
0046540 05031404030610760503 14020302140055001377 10635500137630776311 13731400341214600200 ECLDCFH ECLBCBL K H K X IK L 1JL B  
0046544 03360100011414440200 03360372002000525024 00000000001000760022 0000000000100200030 C3A ALL9B C3C P 1/T H R A P X  
0046550 10300000007400740000 00005400142420350313 02000476000030452300 10000505020034131401 HX = LTP2CKB D X+S H EEB 1KLA  
0046554 03113044101307031004 03021005120111015400 32332000323434152033 04060200047614003457 CIX9HKGCHDCBHEJAI= ZOP Z11MPODFB D L I.  
0046560 01001231302204053021 34221401342350001501 54001336140155001377 01001231031701001502 A JYXRDEXQIRLA1S/ MA= K3LA K A JYCOA MB  
0046564 30053411146234121414 34131457020003360364 01001516307560103011 124000371010015253412 XE1IL 1JLL1KL.B C3C A MNX HX1J5C A MULJ  
0046570 30053411140334131457 02000336036501001540 30531006315510063154 07300200056601001552 XE1ILC1KL.B C3C A M5X\$HFY HFY=C B E A M)  
0046574 30766010301004701477 17010576037001001564 50000103341030776204 61701600140301001416 X HXHD L OAE C A M / AC1HX D N LCA LN  
0046600 00000000004042040044 43000050640000546400 00605700007057000200 00000204000242100000 57D 98 / . . B BD 87H  
0046604 42140002422400024230 00004234000202400104 0250000226000002264 0002060000006404204 7L B7T B7X 71 8B5ADB/ R R BF F57D  
0046610 00005523207124240310 15240311162403110000 17055523214024240310 15240311162403110000 SP TICHMTCINTCI DE QS2TICHMTCINTCI  
0046614 21525523202315240311 16240311000020505000 14151006061114666010 30713412020015411606 Q) SPSMTCINTCI P// LMHFFIL HX 1JB M6NF  
0046620 62101414342401001165 14003457200020003420 30451377041130452200 37772300050004030100 HLL1TA I L 1.P P 1PX+K DIX+R 4 S E DCA







0047534 35463044217775730710 04031014060520350305 02000476020017673023 34070200306230451377 2-X9Q GHDCHEP2CEB D B O XS1GB X X+K  
0047540 04041400540026373425 34303431343230643433 30653434140002000336 02003541031102002154 DDL = V41U1X1Y1ZX 10X 11L B C3B 26C1B Q=  
0047544 50002631335504030200 35410200236202003773 30063422300734233025 10025500137710635500 / VYO DCB 26B S B 4 XF1RXG1SXUHD K H  
0047550 13760100110200010100 2361140034030715400 67651600343503262376 54002650300305073062 K A IB AA S L 1CX = N 12CVS = V/XCEGX  
0047554 32331014316332340453 50007477217772775400 11540404010045400341 37030631200000006010 ZOHLY Z1D%/ Q = I-DDA +5C64CFYP H  
0047560 30143463301334623233 10143114323406032100 00003235075510710306 17011015340310053203 XL1 XK1 ZOHLYLZ1FCQ Z2G H CFOAHMICHEZC  
0047564 34030307353554006765 05030100256330331014 3134313521777770703 30766226147754002562 01002557340230353202 2 Q 11H 10. U EFX VL = U A U.1BXZ2B  
0047570 6135676621777773434 10633433570025620506 0504200000003163001 0023101210067665400 1ADHXOHLV1Q A XBEDP CNXAHBYAQ =  
0047574 34010410303310143134 21000000610167663002 03040100446300003007 16015400676453000106 UVP B Q 11H 10CDA 9 XGNA= \$ AF  
0047600 25512000000061026766 2177777343410633433 0306764020005630603 02001565403634061400 E13353EEL B C3C = PX B E FCB M 531FL  
0047604 05263636403605051476 02000336037454006764 30552300000004030200 35412000000062303625 1GCIPX B E FCB M 3GX S DCB 26P X3U  
0047610 34070311203067640200 05630603020015653607 50003057101453003060 32250767046654003060 Q FFX2H DCA TPA S / X.HL\$ X ZUG D = X  
0047614 2177777060630351071 04030100242001002361 0566304723007775400 26423046230021775400 1+H = X.1-X HKHE B E X+S = V7X-S Q =  
0047620 34471063540030573446 30766010301005740200 50000106100134021063 3401324607510143102 V63\*H 2-/ AFHB1BH DF/ AFHA1BH 1AZ-GEHLYB  
0047624 26413647106335465000 01061002340210630406 23007777540026423025 10025500137710635500 Z+FMXA1-S Q = V6XB1+S = V7XUHB K H  
0047630 32470615300134462300 21775400264130023447 50001415100606200200 15411606601030251006 K X K LA11JL B C3/ LMHFFB M6NF HXUHF  
0047634 13763077637013713104 34113412146002000336 34255400137754001376 20306764020005630603 30063422300734235000 2JH 2IH 2HB M6NF HL 1U= K = K XF1RXG1S/  
0047640 35121063351110633510 02001541160662101400 02000336500026313355 04040200354114003403 6S= Z / 6T= Z B X L B C3/ VYO DDB 26L 1C  
0047644 41235400320050004124 54003265020030621400 30571701601030143406 30571701601030143406 30131230341630220403 A V\* A X XG2\*H 2-X.OA HXL1FKXJX1NKRDC  
0047650 0100264700000000100 30613007354710633546 32000200352014666010 02002141304634133047 A Y7= SV3\*H 2-XQEY= Z B 2PL HB Q6X-1KX\*  
0047654 01003142540023263647 10633546302105315400 13773311342030143421 30576220302134060431 30201277340502000513 1LL B C3XPX O1LPXL1QX. PXQ1FDYXPJ 1EB EK  
0047660 34141455020003363020 13773311342030143421 10031620327254003216 54003346106323002100 54003215540033452000 P NE= AAXLHCNPZ = ZN= O-H S Q = ZM= O+P  
0047664 20001605540001013014 10031620327254003216 30060100334034024436 1075210077760103636 6 B 13XFCJL = 5HX3= 5KXFA 051893H Q H33  
0047670 41603436300603121400 54004010303654004013 33475200010607063447 10633446300303460200 XBJC1C/C H1CHFFPX-HLO\*) AFGF1\*H 1-XCC-B  
0047674 30021203340350030010 34031006062030461014 30461014334732030460 07573016041610150704 2DA O X3OA= 5KXC= 5HX-HLO\*ZCD G.XNDNHMGD  
0047700 35040100336730361701 54004013300354004010 350430046101433475200 01063447106334461014 LJA LNXBOFEDXCOSDCB 2DX-HLO\*) AF1\*H 1-HL  
0047704 14120100141630023306 05043003332304030200 34123046341330473414 14550200033630141006 O+DBFCA O B 2PXEL1XB1JX-1KX\*1LL B C3XLHF  
0047710 33470402060301003367 02003520300534113002 36365000010655001404 10635500140350010010 12H 93H Q H53JC1A33/ AF LHM LC/A H  
0047714 04351071443610752100 77776010403612033401 04133005100333051370 21003333540035012000 HFG&L 93P 6 13A X XQDKXEHCOEK Q 00= 2AP  
0047720 10060753140044362000 41603436010030613021 30741620601030111714 06321601043014001701 EQ= 2 X N2 1 L B C3X NP HX1OLFZNADXL QA  
0047724 05215400350030741635 63733471140002000336 07135000011254003454 000005760100033220100 E / 5KNA13XQDM/ LMHHGK/ AJ= 1= E A ORA  
0047730 05765000041316013436 30210415500014151010 13551411151124575555 05213030000001003503 YNX O N LVA LNTRACK LIMIT. EQXX A 2C  
0047734 31163077620461701600 14250100141624220103 01003517307416766010 30131277101433140566 XND HNF0XTJBE LKA LNA 2DX N HXKJ HLOLE  
0047740 30160474101606043024 12020567141301001416 3261014316732615400 24371063230021005400 X D N LQA LNA 25X Z HLY Z = T4H S Q =  
0047744 30776204617016001421 01001416010035403066 30615400253530602300 21005400253430555400 T3P Q O = T M O = T X = U2X S Q = U1X =  
0047750 24362000217733665400 24651500336754002466 25531063230021005400 25261177540024775400 VYHFN = UWS = U = U1H S Q = UVI = T =  
0047754 26311006160054002527 23007777540025005400 20005400254620001541 16025400263654002423 U1X HFY HFY = U\*H S P = U-B M6NB= V3= TS  
0047760 10632300200054002635 54002422560026361063 55002635306610063155 10063167540024731063 H S P = V2= TR, V3H V2X HFY HFY = T H  
0047764 10632300200054002635 54002422560026361063 30661014316717015400 25351063230020005400 S Q = T CQ, T H T X HLY OA= U2H S P =  
0047770 23002100540024720321 56002466106355002465 54006765530001060506 36364036042454006765 U1A 25A 4TL = XGNA= \$ AFEF3353DT=  
0047774 25340100354001003724 14005400676430071601 5400676530001060506 34070372147602000336 PX B E FCB M / 1GHFFB H1FL 1GC L B C3  
0050000 20306764020005630603 02001565500067653407 36253024120204142000 77773402200077773401 C A 4 X9H JGICEDB 4U3UXTJBDLP 1BP 1A  
0050004 03740100377230441074 12071103050402003725 77770405300234134001 03150100377202004126 Z3GQEDXGZBFBM M1XAS DEXB1K5ACMA 4 B 6V  
0050010 32360721050430073202 06150200155330012300 3412300534114430200 03365700113230135200 FCB M B M1XG1KXFR 4 1JXE11L8B C3. IZKK)  
0050014 06030200156502001553 30073413300622003777 50001403321310145100 14043214540014041063 04041701617367661427 LCGFHLYL) LDFKLN= L / LCZKHL) LDZL= LDH  
0050024 54001403560013340100 37220303030407120610 03120317010041253057 02000563010041250000 = LC, KIA 4 CCGDGJFHCJCOA 6UX.DDOA LW  
0050030 61707000300654006775 30075400677614005400 67655400676420006764 02000563010041250000 XF= XG= L = P B E A 6U  
0050034 35030500436200000034 01004367200044103401 14203501400105030100 11023344130305675001 ZCE 8 1A 8 P 9H1ALB2A5AECA IB09KCE /A  
0050040 00013401010100000204 44150000140054003701 56003603500041175400 26442000010055002443 A1AA8 BD9M L = 4A, 3C/ 60= V9P A T8  
0050044 50004122540026432000 20005400237214025500 23705000236005030100 3303064100631551006 / 6R= V8P P = S LB S / S ECA K X HFY HF  
0050050 31656170747301004367 50004120540025572000 23655400265050006765 34021002350250026777 Y A B / 6P= U.P S = V// 1BHB2B/B  
0050054 54007477500267661117 04030100256330020421 20004524540026505400 26520100256320002365 = /B 1DDCA U XBDQP +T= V/- VIA U P S  
0050060 54002650200023615400 26520200372501002627 17010706020037731401 01001416210005013402 = V/P S = V1B 4UA VNOAGFB 4 LAA LNO EA1B  
0050064 10013102340110033102 10023101106654006765 16023435140054002557 01002420000000000000 HAYB1AHCBHBYAH = NB12L = U.A TP  
0050070 35030600322700000242 01003234010045755000 15015400133630063422 30073423500014151006 2CF ZW B7A Z1A + / MA= K3XF1RXG1S/ LMHF  
0050074 06603045137704063022 04043021020045655000 14240405020015411606 03021466603030371006 F X+K DFXRDDXQB + / LTDEB M6NFCL XX4HF





















0054104 33560410140054000012 14210200033630113401 30741662601030010405 30141006074430013414 0,DHL = JLQB C3XIIAX N HXADEXLHFG9XAIL  
0054110 30741662621030010404 14540200033630010100 17455511141405070114 55031715151716551505 X N HXADDL=B C3XAA O+ ILLEGAL COMMON ME  
0054114 15172231551501160107 05225522052125052324 57000000550614552205 21250523245502053117 MORY MANAGER REQUEST. FL REQUEST BEYO  
0054120 16045515061455510315 52570000270111241116 07550617225523241722 0107055510315525755 ND MFL (CM). WAITING FOR STORAGE (CM).  
0054124 55000000000000000000 33020600000000000076 01000005302010060604 14005415015230202200 OBF A EXPHFFUL =MAIXPR  
0054130 37773402140034011404 60103010340330113457 30741675601030110215 04423404141434111412 4 1BL 1ALD HXHCIXII.X N HXIBMD7IDLIIILJ  
0054134 02000336030330573401 15023557602033030503 01150127302004653024 33511237056330571601 B C3CCX.IAMB2. POCECAMAXPD XTO(J4E X.NA  
0054140 60103010107111740404 37040602360430203340 05463021334105743022 33420571302333431377 HXHH I DD4DFB3DXP05E-XQ06E XRO7E XS08K  
0054144 05651414341114040200 03363657602056150006 01150005300134570403 01150175141434111404 E LLIIILDB C33. P,M FAM EXA1.DCAMA LLIIIL  
0054150 020003360301521000453 54150151307416356373 01500304150001150005 14000200033630741620 B C3XMQ DS=MAIX N2 A/CDM AM EL B C3X NP  
0054154 60103011050301150021 14440200033601000114 14666020140434243051 12372300150033443657 HXIECAM QL9B C3A ALL PLDITX(J45 M 193.  
0054160 62201701624014143411 14040200033620000370 31153401140535014001 04203340057250010001 POA 5LLIIILDB C3P C YMIALEZASADPO5E /A A  
0054164 33410566500100023342 05625001000333431377 05553002220017770515 50010004100606223074 06E /A B07E /A C08K E XBR O EM/A DHFFRX  
0054170 16216010301312771103 05131475127704103420 0115000515601030101006 06335001000312771715 NQ HXKJ ICEKL J DHIP( EM HXHHFFO/A CJ UM  
0054174 10063544300210070722 14666010300212773411 05055001000412773412 14550200033630113420 HXIECAM QL9B HXBJ IIEE/A A DJ IJL B C3X NP  
0054200 30143421307421000101 60103010101707123074 16256010301010200622 20007300031630131237 XLIQX Q AA HXHHGJX NU HXHHPPFR CNXKJ4  
0054210 24000015400617252420 25240002400220251603 74003520305762201701 62400115000511162025 YLOKX9H IBDGIADE3DP 2PX. POA 5AM EINPU  
0054214 00000003000214071700 08000015000700000000 00000015000615000100 T M5FOUTPUT B5BPUNCH C BPUNCHB C BP8  
0054220 10032100001003662701 11245506162455232001 03055700000000000000 33040600000000000113 C BLGO M G M FM A D6JIGD IC  
0054224 01000005011502670100 00113004541500613006 54150060300554150057 14623515203322060200 HCQ HC WAIT FNT SPACE. ODF AK  
0054230 04761562351503540215 00125015006034042000 2000340520000003406 1512551500272150012 D M EAMB A IXD=M XF=M XE=M .L ZMPORFB  
0054234 01150005301312773405 30072200010010053505 14125515002730025100 05156010301410031606 1512551500272150012 AM EXKJ IEXGR A HEZELJ M WXBJ EM HXLHCF  
0054240 60103010106511033416 14046010301134033407 30103406325707023416 30160504150455150522 HXHH ICINLD HXICIGXHIFZ.GB1NXNEDMD MER  
0054244 02150512140235066010 32030705300234060115 02013014046534011071 11120403110105573006 BMEJLB2F HZCGEXBIFAMBAXLD IAH IJDCIAE.XF  
0054250 16016010301012773302 05503001123710073374 05023407300110711113 20005701341230776210 NA HXBJ OBE/XAJ4HGO EBLGXAH IKE XIODE LG  
0054254 20000601541500273016 05271414341014253411 30741674601030145415 00463013127710145315 P FA=M WXNEWLLIHLUIP .A1JX HLA111JL B  
0054260 03363011040414760200 03363007050301150053 02664301341630031277 34020115026530570416 C3XIDDL B C3XGECAM XN HXL=M -XKJ HLSM  
0054264 77761376100655150043 01150035220037775415 34014001054614760200 03360115000543670000 K HF M 8AM 2R 4 =B 8AINXCJ 1BAMB X.DN  
0054270 60031701601030141071 17170607210003323115 03630434033230141337 34143007130111013407 COA HXLH ODFGO CZYMIASAE-L B C3AM EB  
0054274 44344434043444344434 443404347042000570000 34123002341114033413 14570200033602150512 9191D1919191C\*DP . C DICZXLK4ILXGKAIAG  
0054300 30576203170162103707 03173007101006123004 63700413307416716010 30103357052636073057 X. COA H4GCOXGHHFJXD1JXB1ILC1KL.B C3BMEJ  
0054304 01150005301454150417 30155515040030571701 04113074167160101400 34113074167162100215 AM EXL=MDOXM MD X.OA DKK N HXHO.EV3GX.  
0054310 62030352111620252447 00010000305717013377 37773407301010060605 12771014531577761376 CCIINPUT\* A X.OAO DIX N HL IIX N HBM  
0054314 05123002041751000515 60103002341130132200 07424300322105573005 02150531011500051001 EJJXBD0( EM HXB1IXKR 4 1GXHHFFEBMEYAM EHA  
0054320 07041405020003363007 23001524040723000300 34141402341210133411 GDLEB C3XGS MYDGS C DDS ZQE.XEJ HLSM K  
0054324 10063405011500530100 05111400341330571701 305717013377040011410 HFIEAM SA EIL IXK.OA1LLB1JHKIIL B C3C A  
0054330 05303004047434123002 33163411144302000336 3301260000000000173 01000005021510230200 EXXD0 IJXBON1IL8B C3X.OAO D LHIHL IILRIJ  
0054334 30776210140134113412 14600200033603600000 00000405210400000200 34132000000034121401 X HLA111JL B C3C OAV A A EBMHSB  
0054340 05100434020001020405 30440403020004010200 05662000002534141063 EHD1B ABDEX9DCB DAB E P UILH IKP IJLA  
0054344 34111451020003363011 04041476020003362000 00000405210400000200 04421400340414003406 IILIB C3XIDDL B C3P DEQD B D7L IOL IF  
0054350 01000005140034021063 123734011101433020406 021400077070356000056 A EL 1BH J41AHLOBDFQ5 GC. ,A AAB A1G.  
0054354 02000513020001520751 02000513200005070200 05600742020003422077 B EKB A1G(B EKP EGB E G7R C7P 2CZAG=B  
0054360 03150570500300631071 55000060500300031277 10145303000401000065 01000151200005070200 CME /C H /C CJ HLC DA A A1P EGB  
0054364 05600723020003421512 35033201063150000511 04145000052612771014 51000527040301000274 E GSB C7MJ2CZAFY/ EIDL/ EVJ HL( EWDCA B  
0054370 1500034520000003416 51000213047020000000 34170311020003660200 031507130403001000162 M C+P INI BKD P UOCIB C B CMGKCA A  
0054374 20000000340602000441 01000151500005121704 10025100051217043101 33030506500005265100 P 1FB D6A A1/ EJODHB( EJUDYAOCEF/ EVI  
0054400 05270506500005110447 15010352500005110511 02000510540002055003 00115400021350000526 EWEF/ EID\*MAC1/ EIEI/C H= BE/C I= BK/ EV  
0054410 00013241056750030002 00003406020004410750 52000513010001530100 03144003324005735003 IN/ EW10P 1FB D6G/B EKA A3A CL5CZ5E /C  
0054414 51000515210005113401 50000512170210025100 05121702310134030354 01000341500005151002 AZ6E /C B27E X8K 1B/C CK ZBC1A C6/ EMHB  
0054420 50030011341703675400 00500100040050030063 10710470117704662077 01000365900300103416 ( EMQ E11A/ EJOBHB( EJOBYA1CC=A /C HIN  
0054424 10033301137055000435 02000513200005070200 05630346231123035655 76775503006310713401 /C IIOC = /A D /C H D I D P C H IA  
0054430 30063400300034061075 21007777601030061203 34015001001034001006 33335700000001000440 HCOAK D2B EKP EGB E C-SISC. 00. A D5  
0054434 06553617371606525000 01063117340701000440 10713217077330160467 06171500530001063517 XFI X IFH Q HXFJCI1A/ H1 HFFDM \$ AF20  
0054440 0503010005720002601 34102000141134112000 04253412143210063413 30300406107111330517 F 304NF1/ AFY01CA D5H ZOG XND M C A EGX5  
0054444 34300315307416666001 30041277510005156030 30341003160460300200 07320407140034013402 ECA E.P VALHP LIIP DUJLZHFIKXXDFH IOEU  
IXCMX N AXDJ ( EM XXIHCND XB GZDGL IA1B

0054450 34040100050730015400 00261701601030776210 30013414106334133044 04141101040514760200 1DA EGXA= VOA HX HXALH IKX9DLIADEL B  
0054454 03360347200004325400 00501416110634125400 00331400341114510200 03363011043630776010 C3C\*P DZ= /LNIF1J= OL I1L1B C3X1D3X H  
0054460 30141011061214000200 03363074162060103011 1122051220557005400 04341400540004350100 XLHIFJL B C3X NP HXIIREJP = D1L = D2A  
0054464 05572000372017010676 01000565300160103011 34065400022754000303 34065400022754000303 03101277340534111406 E.P 4PDAF A E XA HX1IF= BW= CCXJH 1E11LF  
0054470 34131457020003360200 05133014100316203272 54000450106323002100 54000447140134071401 54000447140134071401 IKL.B C3B EKXLHCNPZ = D/H S Q = D\*LA1GLA  
0054474 01000563140101000731 14046001140235016003 33020466300304713007 10711113056530103303 A E LAA GYLD ALB2A COBD XCD XGH IKE XHOC  
0054500 05623011330405573012 33050554301333061377 05503001160160033003 12775100051560033007 E XIODE.XJOEE=XKOFK E/XANA CXKJ ( EM CXG  
0054504 10031604600330033330 05603004333105553005 33320552300633331377 05463601140001000731 05463601140001000731 HCND CXCOXE XDOYE XEOZE)XFOOK E-3AL A GY  
0054510 01001022200010413115 34013601400104673115 34023015217700004502 03660012001500220063 A HRP H6YMI43A5AD YMLBXMQ \*BC J M R  
0054514 01000104011101160123 01320140015001540161 01670172017602010205 02100213021702210225 A ADAIANASAZA5A/A=A A A A BABEBCBKMBQBUB  
0054520 02320234023602420250 02520255026202670273 02750300030303060313 03440347035103540360 B ZB1B3B7B/B)B B B B C CCFCK9C\*C/C=C  
0054524 03770422042604770514 05550564056706110613 06200651065406560664 06720674071507220727 C DROVD ELE E E FIFKFPF(F=F,F F F GMRGW  
0054530 10210000000000000000 33222000000000000072 01000005501577744415 50157775340534115015 HQ  
0054534 77763406046334121402 34131457020003361577 340130110424377010454 14000200033630741620 A E/M 9M/M 1E11/M  
0054540 60105000011254150050 0000057630111220557 01150244340702000513 30132200377754150306 H/ AJ=M / E XIIRE.AMB91GB EKXKR 4 =MCF  
0054544 20006776020005600733 50006777117705275000 67762300377705223006 53007006051650007171 P B E GO/ I EW/ S 4 EKXF\$ FEN/  
0054550 0523021503640251140 05205000707510060605 03111500011501751514 55150241561502330115 ESBMC DUISEP/ HFFECIM AMA ML MB6,MBOAM  
0054554 02004015123204251511 55150150401510060617 56150233142761707067 B 5MJZDUMI MA/5MHFFD,MBO LW L I1XFILXE  
0054560 34131432020003360200 05132000677602000563 06035615020202000566 14000426300502150431 IKLZB C3B EKP B E FC,MBBB E L DVXEBMDY  
0054564 54150307300610710215 04315415031130060215 04315415031220030306 31150200044230063412 =MCGXFH BMDY=MCIXFBMDY=MCJPCCFYM B D7XFIJ  
0054570 14001013330534111403 34131457020003363005 34111417341314570200 03363005510005156010 L HKOE11LC1KL.B C3XE1LD1KL.B C3XE( EM H  
0054574 30141003160660101607 60003010106511030514 30030512341120767777 34141063341314320200 34141063341314320200 XLHCNF HNG XHH ICELXCEJ1P 1LH IKLZB  
0054600 03360115000505213030 56243030303055233123 24051555230503241722 55052222172257000000 C3AM EEQXX,TXXXX SYSTEM SECTOR ERROR.  
0054604 11100406570200025700 72010315570200015700 72000310401513021131 05604702570071775000 IHDF.B B. ACM.B A. CH5MKBIYE \*B. /  
0054610 71775100720051007201 10065100717001000363 20000123601030140502 36141002311421007177 ( ( AHF( A C P AS HXLEB3LHBYLQ  
0054614 34024015120204102077 76775500717015025502 77764015120104030115 03435000717013325400 03435000717013325400 1B5HJBDHP MB B 5MJADCAMC8/ KZ=  
0054620 71705702777601150352 01000430127734001003 33001370210033330366 33060100000000000024 .B AMCIA DXJ I HCO K Q OOC OFA T  
0054624 01000005561577755400 71713414140034131401 34115015777412353401 10152100013134023001 A E,M = ILL IKLAI1/M J21AXMQ AYIBXA  
0054630 43020403360203733002 21777646321534121451 02000336301104041476 02000336500071716010 8BDC3BC XBQ -ZM1JL1B C3X1D1L B C3/ H  
0054634 30113406301012773405 34113014106631123113 54150115141734131457 02000336501577741202 XI1FXHJ 1E11XLH YJYK=MAMLO1KL.B C3/M JB  
0054640 04133005341114143413 14623412145702000336 03042000011405113411 30063414300534131432 DKXE11LLIKL 1JL.B C3COP ALE11XFB1LXEIKLZ  
0054644 02000336011500050000 00010020000500000030 03010021000000000000 33220600000000000075 B C3AM E A P E X Y Q ORF  
0054650 01000005200001236010 30105415033250157774 10144415106334165015 77753417301555150047 A EP AS HXH=MCZ/M HL9MH 1N/M 10XM M \*  
0054654 14046010401513070405 15225515033115021611 31103403307763700330 14003413300334141456 LD H5MKGDEM R MCYMBN1YH1CX CXL IKXC1LL,  
0054660 02000336301104040215 03740364300360050200 050133014100316203272 54150420106323002100 B C3X1DDBMC C XC BE EKXLHCNPZ =MDPH S Q  
0054664 54150417300604143016 31170411021504110706 20006776020005600606 15000215033601150005 =MDOXFDLXNYOOIBMDIGFP B E FFM BMC3AM E  
0054670 40151307171004700631 50007022341650007023 34175000702154150216 14000215033650157776 14000215033650157776 5MKGOHD FY/ R1N/ S10/ Q=MBNL BMC3/M  
0054674 04511430451520000275 54150124011500311710 05322000717334021405 35022177030407030115 D1LX\*MP B =MATAM YOHEZP 1BLE2BQ CDGCAM  
0054700 02624002127753157776 05643602170454150214 40025415021614666170 02132000000012773402 B 5BJ \$M E 3BOD=MBL5B=MBNL BKP J 1B  
0054704 10022100700535025015 02161071170507021601 35022077767745020723 50007016170104044015 HBQ E2B/MBNH OEGBNAZBP \*BGS/ NOADD5M  
0054710 10210721500070155200 70160714470210140704 5700701606064760200 03360115012057007015 HQGO/ M) NGL\*BHLDG. NFFL B C3AMAP. M  
0054714 07701401011501215015 77763411140034103077 62101406341414013411 10063413150434121464 G LAAMAQ/M 1IL IHX HLF1LLA1IHFIKMD1JL  
0054720 02000336301104061104 04040215037403560115 00052223302630300000 13000100033505112000 B C3X1DF1DDBMC C,AM ERSVXX K A C2EIP  
0054724 05003401140054016777 37010573070520006776 02000563020005663003 60103614300362100350 E 1AL =A 4AE GEP B E B E XC H3LXC HC/  
0054730 50000112541503710000 05760100037314000200 03363074162060103011 11220557011500050100 / AJ=MC E A C L B C3X NP HXIIRE.AM EA  
0054734 04103006340030003406 1075210077760103006 12033401500100103400 10060617150053000106 DXHF1 X 1FH Q HXFJCI1A HI HFFOM \$ AF  
0054740 35170655361737160652 50000106311734070115 04101071321707733016 04671500036700000000 20F 304NF)/ AFY01GAMDHH ZOG XND M C  
0054744 14061500107300000274 02001752200000000405 23361400020004760100 11113624305704026220 LFM H B B O1P DES3L B D A I1JTX.DB P  
0054750 02001373140005061444 02000336010001143411 14033412307763701143 14600200033601000114 B K L EFL9B C3A AL1L 1JX 18L B C3A AL  
0054754 00140076220601001146 34251601101254001406 10635400140302001175 L RFA I=LUNAHJ= LFH = LCB I NA HXIHIF.  
0054760 30251115045401001113 01001174305310063155 10063154037001001204 30251277047351000515 XUIND=A IKA I X1HFY HFY=C A JDUXJ D ( EM  
0054764 60103010100607651001 06042200760004603025 12773411140502000336 03510100123314015400 HXHHGF HAFUR D XUJ 1ILEB C3C1A JOLA=  
0054770 50002000500134152033 04060200047614003457 03610100125202001712 05050200120514010316 / P /ALMPODFB D L L.C A J1B OJEEB JELACN  
0054774 30253420200050003415 20330206020004760305 14003457141003163004 05470200123414170310 XU1PP / 1MPO8FB D CEL 1.LHCNXDE\*B J1LOCH  
0055000 02000442143602000336 01000114340011150502 34573000020011472001 17645400111210635400 B D7L3B C3A ALI IMEB1.X B I\*PAO = 1JH =  
0055004 11030100110202001147 30070411540013511401 02001341160663731350 36243057040262203075 ICA 1BB I\*XGDI= K(LAB LYNF K/3TX.DB PX  
0055010 60103011137711203411 30551006160162100100 11210100137236263444 1400051103431372300 HXIK IP1IX HFNA HA IQA K 3V19L E1X8K S

0055014 00003443200000003544 02001175624003560100 14140200147404050200 16170470141511000100 18P 29B I 5C,A LLB L DFB NOD LMI A  
0055020 13160100143034013074 16276010301313013301 34133074162762100362 01001446020014740473 KNA LX1AX NW HXKKA0A1KX NW HC A L-B L D  
0055024 30576010301012775100 05156010301322003777 23002405055614000354 34570100147314046010 X. HXHXJ ( EM HXKR 4 S TEE,L C=1.A L LD H  
0055030 14023510602033110466 30200471334005673024 33511237056330413321 05603042332205553043 LB2H POID XPD OSE XTO(J4E X60QE X70RE X8  
0055034 33231377055136103457 03420100153102000513 30141003162032725400 15571063230021005400 OSK E(3HL.C7A MYB EKXLIHCNPZ = M.H S Q =  
0055040 15561400340334023400 30061075210077776010 30061203340150010010 10060612107134065000 M,L 1C1B1 XFH Q HXFJCI1A/A MHFFJH 1F/  
0055044 01063503106335023600 03531071340735031063 35023600010015313057 60201701601014000100 AF2CH 2B3 C4H 1G2CH 2B3 A MYX. POA HL A  
0055050 16163077622030573414 14003413145602000336 30110456036210713306 04243306340012033401 NNK PX.ILL 1KL,B C3XID,C H OFD0F1 JC1A  
0055054 5000010635610633535 30001075210077776010 50010010100607531401 01001662340302000513 / AF23H 22X H Q H/A MHFGSLAA N ICB EK  
0055060 30141003162032725400 16531063230021005400 16523007343610633435 30030347140001001711 XLHCNPZ = N4H S Q = N1XG13H 12XCCL A DI  
0055064 14403401400110710420 17450666400112770415 17450661360111430563 30431071174507530351 L51A5AH DPO+F 5AJ DMO+F 3A18E X8H D+G4C1  
0055070 40010547360111430573 30431071054130400340 01001751020027360503 01002036305310713427 5AE\*3A18E X8H EGX5C5A OIB WJECA P3X4H 1W  
0055074 30531277345330521732 05135600137602001175 60103013127704121701 03100200117516016010 X5J 14XJ0ZEK, K B I HXKJ DJOACH I NA H  
0055100 30131071160434453053 10140706335431451071 32560705200021130100 13073052100131523407 XKH ND1+XSHLGF0=Y+H Z,GEP QXK GKHJHAY1IG  
0055104 21777656070520002127 01001307307416216010 30131277344715003347 55002057500721740403 Q ,GEP QWA KGX NQ HXKJ 1\*M O+ P./GO DC  
0055110 10210655500721735400 11120450500721721277 54001103020011756040 30442200177634263444 HQF /GO = IJD//GO J = ICB I 5X9R O 1V19  
0055114 30431377344314003457 34250100175155010404 22052323551725245517 06552201160705570000 21000102601030120470 LFM ILLEGAL REQUEST. A Q8X Q AB HXJD  
0055120 55140615551114140507 01145522052125052324 57000000010021433074 01000261200000041764 KAIAL XX Q AB XXAECA IKLLA KN VJ DD  
0055124 13013401146660303074 21000102623030010503 01001113141401001316 0000000517770000002 SE DP BS6 BS- BS VO CP2 EO B  
0055130 00000004207600000000 00000000000517640000 00000000261700000003 20350000000520030000 00002637000000071764 EP/ SK FO FR9 FVP V4 GO  
0055140 00052050000000002313 000000006176400000006 22440000000626200000 00002637000000071764 EP/ SK FO FR9 FVP V4 GO  
0055144 00000003221600000003 23360000000520010000 0007211500000022640 00001466601030451707 CRN CS3 EPA GQM BV5 L HX+UG  
0055150 07160200117516076210 02001474140660013003 3401300430203101422 01001316570023601407 GNB I NG HB L LF AXCIAXD1BCHLRA KN. S LG  
0055154 60013001101431026030 30341277160235021063 35013030052014010556 20041764540011121063 AXAHLYB XX1J NB2BH 2AXXEPLAE,PDU = IJH  
0055160 54001103305705030100 11020100250733400513 30313341051030323342 05053033334313770433 = ICX.ECA IBA UG05EKXV06EHXZ07EEX00BK DO  
0055164 30331204050301002344 30341277047334033001 10143102320360103010 33400513301133410510 X0JDECA S9X1J D ICXAHLYBZC HXH05EKX106EH  
0055170 30123342050530133343 13770405370305540100 23443033120404050200 26500100257130331201 XJ07EEXK08K DE4CE=A S9X0JDEB V/A U X0JA  
0055174 11011013540025343034 12773403140460103610 60303057041560203030 33200504303133210406 IAHK= U1X1J 1CLD H3H XX.DM PXXOPEDXY0QDF  
0055200 14003457141001001316 30011014310232031701 6010600314003403043 30131006060301002344 L L.LHA KNXAHLYBZCOA H CL IH1CXKHFFCA S9  
0055204 20002533341037140603 36143713020011751606 62031601621030570405 14003457010011131477 P U01H4LFC3L4K8 I NF CNA HX.DEL 1.A IKL  
0055210 34250200125330303420 30313421342214013423 30511237230010003444 30431377110134433057 IUB J4XXIPXY1QIRLA1SX1J45 H 19X8K IA18X.  
0055214 17016240304313773443 01001113020021442002 17640312020014740405 14003457010011132003 DA 5X8K 18A IKB Q9PBO CJB L DEL 1.A IKPC  
0055220 17645400111210635400 1103010011020202144 02001447055620032147 03610100264730343400 D = IJH = ICA IBB Q9B L\*E,PCQC A V\*X11  
0055224 12773403300110143102 32031701603030001071 34301477342502001253 30303420041751000515 J ICXAHLYBZCOA XX H 1XL IUB J4XXIPDQ1 EM  
0055230 60103013100606130200 27253031342134223032 34230310020027253033 34213422303434230100 HXKHFFKB WUXY1QIRXZ1SCHB WUX01QIRX11SA  
0055234 26470100272414046010 36106010301034200367 01002735307560103011 124003710000000000000 V\*A WTLD H3H HXHIPC A W2X HX1J5C  
0055240 36140200175400000267 01001761037530451706 06041422010013160200 14153057540021573022 3LB O= B A O C X+OFFDLRA KNB I MX.= Q.XR  
0055244 05035600220730201277 51000515540021416030 30332200377723001524 04072300030004042300 EC, RGXPJ ( EM= Q6 XXOR 4 S MTDGS C DDS  
0055250 32210513560022243074 21000102603030300403 14270324301312775400 21763014540021711071 ZQEK, RTX Q AB XXXDCLWCTXKJ = Q XL= Q H  
0055254 55002132031350002157 34576020362430576220 14150100131602001175 16066040020014740521 QZCK/ Q.1. P3TX. PLMA KNB I NF 5B L EQ  
0055260 01002156305760200100 11133624305762205000 21573457602014020100 13165300215704570200 A Q,X. PA IK3TX. P/ Q.1. PLBA KN\$ Q.D.B  
0055264 16170403010020533014 10713407500722660423 14001115040433071115 05422000214060303030 NODCA P4XLH 1G/GR DSL IMDDOGIME7P Q5 XXX  
0055270 10060703010021023014 13405400217102001234 20002156345760200200 17120504140101001316 HFCCA QBXLK5= Q B J1P Q,1. PB OJEDLAA KN  
0055274 20002170344430431377 21002175344330571701 6240304410711110516 14000404140301001316 P Q 19X8K Q Q 18X.DA 5X9H I1ENL DDLCA KN  
0055300 30741671601030573411 30741671621014000503 01001113307410703411 14150200033630756010 X N HX.1IX N HL ECA IKX H 1LMB C3X H  
0055304 60303031137716203431 34113033127734333074 21000102623030551006 16016210020011756040 XXYK NP1Y1IX0J 10X Q AB XX HFNA HB I 5  
0055310 01001113000000000000 00010000000000000000 000000010000000000000 00000000020014153014 A IK A A B LMXL  
0055314 10711115040611040404 14020100131650002332 05063013101706031421 0366301310111013413 H 1MDFIDDLBA KN/ SZEFKHOFCLC KKA1A1K  
0055320 30571701621001001113 14005400233201002305 02001474041002001617 04041415010013161402 X.OA HA IKL = SZA SEB L DHB NODDLMA KNB  
0055324 34260100111330451706 06041422010013160200 14150200117516016030 16046210160162201400 1VA IKX+OFFDLRA KNB LMB I NA XND HNA PL  
0055330 34303020127704215100 05156010301322003777 34253430301010060706 10010704200040003530 LXXPJ DQ1 EM HXKR 4 1U1XXHMFHAGDP 5 2X  
0055334 02001175160162303027 11010510302523001524 04062300030004040100 11133427304517100604 B I NA XXWIAEHXUS MTDGS C DDA IK1WX+OHDF  
0055340 14220100131614053401 14030200257530776003 16016010160160601466 60303007101112063127 LRA KNLE1ALCB U X CNA HNA L XXGH1JFYW  
0055344 10103430301410713402 30140403170112075302 34523530306410653402 30642200077753023460 HHI1XLH 1BXLDC0AJG8112XX H 1B X R G \$B1  
0055350 34313063124034013063 12373402100134323027 04053002313210763342 300104002373230621277 1YX J51AX J41BHA1ZXWDEXBYZH 1ZXAD84ZX J  
0055354 1006353230603434061 04113401200006003534 10633533370105710200 11751610623001001113 HF2ZX 11X D11AF F 21H 204AE B I NH XA IK

RA -  
0000000

E,35700,76000.  
CM  
16.23.30.

EXPRESS 11  
16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DS01 - V2.0  
NOS 1-8J03T/R2B.

79/10/30. 15.19.43.  
NOS 1.4 STUDY DUMP.

PAGE 48

0055360 01002574100634023021 04343501300234133001 34141400341120007773 34121464020003363011 A U HF1BXQD12AXB1KXALL IIP IJL B C3XI  
0055364 04531703061314000200 03363074162060103011 04500100111314040100 13161423340114005401 D\$OCFKL B C3X NP HXID/A IKLDA KNLSIAL =A  
0055370 35763701067302001175 60401601637035763044 10210604142501001316 30451704060414220100 2 4AF B I 5NA 2 X9HQFDLVA KNX+QDFDLRA  
0055374 13160200347205121403 34060200117516026304 3406020011302001617 4061400345714150100 KNB 1 EJLC10B I NB D2 A IKB NDOFL 1.LRA  
0055400 13163404301410713403 50043426330304063604 11100571147734043004 54003602301312773425 54003602301312773425 KN1DXLH 1C/D1VOCDF3DIHE L 1DXD= 3BXKJ 1U  
0055404 30201277340554003603 04165100051560303033 22003777540035763030 10060703010031073024 XPJ 1E= 3CDNI EM XXOR 4 C 2 XXHFSCA YGXT  
0055410 107412740161034603024 10160607100106031404 03131402031130210431 33220507302311010504 J J5NHI XTHNFGHAFCLDKLBCIXQQDYREGXSAED  
0055414 14011011356036010417 34060200153237030605 30020403370215005400 36113002540036103022 36113002540036103022 LAH12 XQD01FB MZ4CFEX80DC48M = 31XB= 3HXR  
0055420 04253406302334073021 02001663303510065400 36131063540036123036 10065400361410635500 DU1FXS1GXQB N XZHF= 3KH = 3JX3HF= 3LH  
0055424 36133660140034045004 34363325127704103604 11070570147602000336 03045004343613775500 3K3 L 10/D130UJ DH3DIGE L B C3CD/D13K  
0055430 3602010031773032200 37772300152404152300 03000411230032000402 14201120346001003166 14201120346001003166 3BA Y XOR 4 S MTDS C DIS 2 DBLPIPI A Y  
0055434 30713171346030242200 40001074356014243401 14010200257530776030 30331010060314403560 X Y 1 XTR 5 H 2 LT1ALAB U X XXOHFCL52  
0055440 14043401140102002575 30776030303410120604 30251021060330710303 20000300550036023060 LD1ALAB U X XX1HJFDXUHQFCX CCP C 3BX  
0055444 54003601140434270200 11751601632735763045 17053445061301001113 1440353420011753127 = 3ALDIWB I NA W2 X+DEI+FKA IKL521B I YW  
0055450 62303745076636270200 11753127601014666030 30141237046434341406 34011502350107505001 X4+G 3WB I YW HL XXLJ4D 11LFIAMB2AG//A  
0055454 34453334057150013446 34010101000030602200 03000407302210671006 35340100322101003217 1+01E /A1-1AAA X R C DGXRH HF21A ZQA ZD  
0055460 02003554047350003602 10060611100106031414 03041003120316013433 50003614120410043533 B 2=D / 3BHFFHAFCLLDCDHCJCA10/ 3LJ0HD20  
0055464 50003607107134025000 36070403170112075302 34521006353401003221 02003554050301003217 / 3GH 1B/ 3GDCOAJG\$B1HF21A ZQB 2-ECA ZD  
0055470 50003613124034015000 36131237340210013403 30601013070530023103 10763403300104023703 / 3KJ51A/ 3KJ418HA1CX HKEGXBVYCH 1CXA084C  
0055474 30031006353450003614 10653402500036142200 07775302346034335000 36103432500036110411 XCHF21/ 3LH 1B/ 3LR G \$B1 10/ 3H1Z/ 31DI  
0055500 34022000060035321063 35313702057101003221 0015000000200030012 00160011001001011700 1BP F 2ZH 2Y4BE A ZQ M B C J N I HAAD  
0055504 05201530213141210005 00013260000232740014 33370020001000300040 00501000200040003006 EPMXQY6Q E AZ BZ L04 P H X 5 /H P 5 XF  
0055510 04053410602036103457 01003471140034061404 60101402351060203311 04573020047133400567 DEI1H P3H1.A 1 L 1FLD HLB2H POID.XPD 05E  
0055514 30243351123705633021 33410560302233420555 30233343137704413010 16016030303012775100 XT0(J4E XQ06E XRO7E XSOBK 06XHNA XXXJ (



0056270 03361400540030431407 34023074160161023157 14363402500231575402 30445002316054023045 C3L = X8LG1BX NA BY.L31B/BY.=BX9/BY =BX+  
0056274 15053502066514203401 30746301303701002217 01002261344030741621 60103013127711030566 ME2BF LPIAX AX4A ROA R 15X NQ HXKJ ICE  
0056300 02002346140034411407 34421473344330263444 30776240142602000336 03460100231350003013 B S-L 16LG17L 18XV19X 5LVB C3C-A SK/ XK  
0056304 51003014510030155100 30165100301704635000 30141377510030130555 20001302342520352220 ( XL I XMI XNI XOD / XLK ( XKE P KBIUP2RP  
0056310 02000476010023453011 17011207101134262077 44443512301222000700 35263012120710033526 B D A S+XIDAJGH1VP 992JXJR G 2VXJJGHC2V  
0056314 30131071173335260351 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 XKH 002VC I  
0056320 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0056334 00000000000000000000 00000000000000000000 14000100252230741670 60201400342734013053 L A URX N PL IWLAXS  
0056340 10130724302010070736 30521006060630231237 34533024345414213401 02002203603005430100 HKGTXPHGG3XIHFFFXS J41SX T1=LQ1AB RC XE8A  
0056344 26343627302010070726 30210510307416656010 30131377311204102000 12453425203522200200 V13WXP HGGVXQEHX N HXKK YJDPH J+LUP2RPB  
0056350 04763023127710143124 05641431341702002203 60303033340117310610 20001260342520352220 D XSJ HLYTE LY10B RC XXO1ADYFHP J LUP2RP  
0056354 02000476020022030510 20001143342520352220 02000476611727623217 16016030160360603033 B D B RCEHP 18LUP2RFB D OW ZONA XNC XO  
0056360 12771014075633341702 07531602107132560647 5000300220074000410 20001325342520352220 J HLG,010B83NBH Z,F+ / XBR DHP KULUP2RP  
0056364 02000476500030010566 02002754041150002767 13015400276714010100 25222000112134252035 B D / XAE B W-DI / W KA= W LAA URP IQ1UP2  
0056370 22200200047655222026 55465520220526111725 23550522221722550317 16041124111716235522 RPB D RPV - PREVIOUS ERROR CONDITIONS R  
0056374 05230524570000000100 27533075601030111240 03710000000000000000 34221100107300000355 ESET. A MSX HX1J5C IRI H C  
0056400 02003142020030310200 67270200306102003107 02001202020056040200 12570200132202000566 B Y7B XYB WB X B YGB J8B ,DB J.B KR8 E  
0056404 14000200033630741620 60100200160302002717 02001555020054500200 17225000446012773430 L B C3X NP HB NCB WOB M B =/B DR/ 9 J IX  
0056410 51004461040520362211 02000476140234111462 02000336010001140200 05663077620460302036 ( 9 DEP3RIB D LB11L B C3A ALB E X D XP3  
0056414 2206020047601005446 01001201200030323426 34013001107104675026 77753430502677763431 RFB D A --A JAP XZ1V1AXAH D /V IX/V IY  
0056420 30261702020027553030 44033031540300013001 10023101352621773545 07470200056602001603 XV0BB W XX9CX=C AXAHYA2VQ 2+G+B E B NC  
0056424 01001203305510061602 62602000030254001120 01001256305604705000 50600465174034012000 A JCX HFNB P CB= IPA J,X,D / / D 051AP  
0056430 12670454200000000404 22007777050650005111 05105000506034012000 03025400112014003427 J D=P DDR EF/ (IEH/ IAP CB= IPL 1W  
0056434 30010200152501001256 01001321142034665000 51113431100332660602 35663074626050005060 XAB MUA J,A KQLP1 / (I1YHCZ FB2 X / /  
0056440 17403430162033305400 13573030342731660200 15253030540014672300 13563427343030766010 051XNPOX= K.XX1WY B MUX= L S K,1WLXX H  
0056444 30100574307460103010 05743066100654001465 30110537307663361460 14025500147132310616 XHE X HXHE X HF= L XIE4X 3L LB L ZYFN  
0056450 10033166070534661420 32663466306631270200 15250100135330766010 30100574307460103010 20100574307460103010 HCY GE1 LPZ 1 X YWB MUA K3X HXHE X HXH  
0056454 05743011051250005060 17403427164002001525 01001321020005662036 2206020047601005547 E XIEJ/ / 051WN5B MUA KQB E P3RFB D A \*  
0056460 00240000000010000000 20000000000000000000 01001166010014745000 27551702230015370410 T H P A I A L / W OBS M4DH  
0056464 23004325056350000103 10060661140655002475 14023435560027200100 11220100152454001551 S 8UE / ACHFF LF T LB12, WPA IRA MT= M(  
0056470 32560704305654001551 20006776020027550462 30553127100663717000 36272300155005620350 Z,GDX,= MIP B W D X YWHF 3WS M/E C/  
0056474 01001554200043253401 36014001047051000515 60303030113705673051 12373430400151000515 A M=P BUIA3A5AD ( EM XXX14E X(J41X5A( EM  
0056500 62300357010016023026 23003032047220003032 34305400165450300004 13371100543000041412 XC.A NBXVS XZD P XZ1X= N=/X DK4I =X DLJ  
0056504 35303226076614046030 141434311141202000336 50001654340140010413 14023530601033310423 2XZVGLD XLL1ILJB C3/ N=1A5ADKLB2X H0YDS  
0056510 30100571303063361653 03305500165434013226 07561414341114040200 03360100160214143411 HXHE XX 3NSCX N=1AZVG,LL1ILDB C3A NBLL1I  
0056514 14040200033620362206 02000476010055472000 14125400165540010403 30301601540053720100 LDB C3P3RFB D A \*P LJ= N 5ADCXXNA= \* A  
0056520 16550100172150005112 04115000511313373351 13373351540051133055 10065400474210635400 N A OQ/ (JDI/ (KK40(K40(= (KX HF= \*7H =  
0056524 47415000474610145100 47471071540022753056 10065400474710635400 47465000475322007007 \*6/ \*-HL( \*\*H = R X,HF= \*\*H = \*- / \*\$R G  
0056530 54004753307416256010 30140431301310175400 47601071130754004761 50004766100653004765 = \*\$X NU HXLDYXKHO= \* H KG= \* / \* HF\$ \*  
0056534 10035400232130141017 54004765107113075400 47661460601016016030 30103330100606041400 HC= SQXLHO= \* H KG= \* L HNA XXHOXHFDDL  
0056540 54005072500050653401 50005056340230745400 47735400500010635400 47725400477701002064 = / / / 1A/ / ,1BX = \* = / H = \* = \* A P  
0056544 50005055550024615000 51053466307416216170 50616010160161705073 / / T / (E1 X NQ / HNA / NA (EX =  
0056550 51053001540050655000 50753401301134125000 53761071043617060634 21000106101402003014 (EXA= / / / 1AX1IJ/ \$ H D3OFF1Q AFHLB XL  
0056554 16026030303054005066 20000106617050733032 55005074106355005073 30311004540050771063 NB XXX= / P AF / XZ / H / XYHD= / H  
0056560 54005076300154005075 50005067217700170604 30125400506750005253 55005077106351005252 = / XA= / / / Q OFDXJ= / / )\$ / H ( )  
0056564 55005076106351005251 55005075500050703430 14005400507050005060 05125400536554005370 / H ( ) ( / / 1XL = / / / EJ= \$ = \$  
0056570 50005367137754005367 30741620617050543002 54005056307463714734 50002620510026210412 / \$ K = \$ X NP /-XB= / ,X \*1/ VP( VQDJ  
0056574 30776370261514013411 34121460020003361466 60103025120104030100 23202000000004221006 X VMLA111JL B C3L HXUJADCA SPP DRHF  
0056600 22750412071110063412 10633171341114700200 10633171341114700200 03362000000004213414 03362000000004213414 ILH IKX,) R DJGIF1JH Y 1IL B C3P DQ1L  
0056604 50005111520023210413 07123412140034132000 03003411147002000336 14023411145202000336 / (I) SQDKG1JL 1KP C 1IL B C3LB1IL)B C3  
0056610 30351712063150352622 04265400236101002360 14160331500051240405 20005124020004423074 XZ0JFY/2VRDV= S A S LNCY/ (TDEP (TB D7X  
0056614 16356260500051550314 14120312500052441007 0705102062314110302 140601002476620002665 N2 / ( CLLJCJ/ )9HGHEHBSLICBLFA T P V  
0056620 03072006267602000442 20002676540025031421 03615000447010710416 34111703061350004471 CGPFV B D7P V = UCLQC / 9 H DN1IQCFK/ 9  
0056624 34145000447012773413 14660200033650001270 05030100256514000514 30301066040614470200 1L/ 9 J 1KL B C3/ J ECA U L ELXXH DFL\*8  
0056630 03360100172101002535 14133411144002000336 20000000040302000442 30742100010160103010 C3A OQA U2LK1IL5B C3P DCB D7X Q AA HXH  
0056634 12040453500044220450 30560405500053641007 07422036220602000476 01005621500051120426 JDD\$/ 9RD/X,DE/ \$ HGG7P3RFB D A ,Q/ (JQV





0057204 12775500611612771105 05053007220037770304 30232300400054006127 01005443010070473011 J NJ IEEEXGR 4 CDXSS 5 - WA =8A \*XI  
0057210 17011207101134402077 44443512301222000700 35403012120710033540 30131071173335400351 0AJJGHI15P 992JXJR G 25XJJGHC25XKH 0025C(  
0057214 01007076304610061603 6010304100310063111 10063146100631123442 10633441101431420354 A X-HFNC HX5HCHFYIHFY-HFYJ17H 16HL7YC=  
0057220 34221700107100000470 02003005020035430200 53520200260302002532 02002121020020250200 1RO H D B XEB 28B 5JB VCB UZB QQB PUB  
0057224 44163057540070113074 16666000300312775400 71733074162161707000 16506000300010710504 9NX.- IX N XCJ = X NQ N/ X H ED  
0057230 50007003127754007230 14005400722654007227 14666170723320000100 54007004030620007777 / C J = XL = V= WL OP A = DCFP  
0057234 05030100126314003457 02001744200000005400 71740200051314105400 010520003070754000101 ECA J L 1.B 09P = B EKLH= AEP 4G= AA  
0057240 02002372500070113457 30715400677702001366 02001451020014640200 50170200153202001570 B S / 11.X = B K B L(B L B /OB MZB M  
0057244 30576220020024430200 05663005341130062200 37773412300734131443 02000336305211010420 X. PNC T8B E XE1IXFR 4 1JXG1KLB8 C3X)IADP  
0057250 02002316030414540200 03360200223514033411 14620200033601000114 30540520500011770415 B SB CDL=B C3B R2LC1IL B C3A ALX=EP/ I DM  
0057254 14003411140134121421 02000336307416256010 30140564140002002563 30742100010560103010 L I1LA1JLQB C3X NU HXLE L B U X Q AE HXH  
0057260 13773410146660113074 21000105621030576220 17016240305112375500 13613075637013600100 K 1HL IX Q AE HX. POA 5X(J4 K X K A  
0057264 01143401120000000000 00010100136530746171 70001401050554007124 54007155200067760200 ALIAJ AA K X LAEE= T= P B  
0057270 22513074317161717000 20006776020022510350 34013055100621001420 61017000307421000130 R(X Y P B R(C/LAX HFQ LP A X Q AX  
0057274 63017000031534013055 10062100143561017000 30742100015063017000 01001365010014502000 A CM1AX HFQ L2 A X Q A / A K A L/P  
0057300 14526171700020006776 02002251036501001463 200024773340330265403 77761071040430715403 L) P B R(C A L P T 1CXV=C H DDX =C  
0057304 77763003170202002251 20777677352607532000 05003503217741000752 02000566342602002025 XCOBB R(P 2VG\$P E 2CQ 6 G)B E 1VB PU  
0057310 01001465200003025400 12350100153130560470 50001166046514005400 12653074160160601601 A L P CB= J2A MYX,D / I D L = J X NA NA  
0057314 60501616603014003403 20000000040302002167 14666060307560500100 15310100156720003103 /NN XL ICP DCB Q L X /A MYA M P YC  
0057320 54002172500022335400 21773056217776773403 16400200216714666030 20002000343014000200 = Q / RO= Q X,Q 1CN5B Q L XP P 1XL B  
0057324 20063074623054001736 30562177767734321620 33325400166330776230 17016370173414020200 PFX X= 03X,Q 1ZNPOZ= N X XOA 01LBB  
0057330 20063076601030100574 30746010301005743011 04031411342430323403 23001662343230776230 PFX HXHE X HXHE XIDCL1ITXZ1CS N 1ZX X  
0057334 17016370173414020200 20063003162034163055 31031006617170002000 67760200225136033316 OA 01LBB PFXCNPIX YCHF P B R(C3CON  
0057340 05640100164430031006 31301071020021673056 1740340316402002167 01001567002400000000 E A N9XCHFXYH B Q X,051CN5B Q A M T  
0057344 00000000540071700100 17431466617071753074 21000101601030101204 04621405341030131237 = A 08L X Q AA HXHJDD LE1HXKJ4  
0057350 10143114045310143155 10066110717514010344 20000100540016622000 17165400166301002005 HLYLD\$HLY HF H LAC9P A = N P DN= N A PE  
0057354 35342000201032340461 07601011323010110664 10113530036101002024 1046010302610023126 21P PHZ1D G H1ZXHIF H12XC A PTLD HXVHBYV  
0057360 21002477540020521402 35106030331104313034 33511237056730106135 20511701335704613357 Q T = P)LB2H XOIDYX10(J4E XH 2P(OAO.D O.  
0057364 62601701626014023526 14125500205221774100 07450100202420000000 04201400540020755000 OA LB2VLJ P)Q 6+ A PTP DPL = P /  
0057370 20525400211330776335 66261702613521121402 35260100202401002120 20000000047362601701 P)= QKX 2 VOB 2QJLB2VA PTA QPP D OA  
0057374 626003670100221312000 36773425340030061006 10714400107521007777 60104000120334013600 C A QYP 3 1U1 XFFHF 9 H Q H5 JC1A3  
0057400 23003706040650010010 10060757150044003625 43430100216634163055 24001006617170003603 S 4FD/F A HHFG.M 9 3UC8A Q INX T HF 3C  
0057404 36553433100634611063 34603756343410063451 10633450200022136260 16016250161662302000 3 1OHF1 H 1 4,11HF1(H 1/P RK NA /NN XP  
0057410 67760200225130163203 05400100216603230100 22340200223730441337 34443057622017016240 B R(XNZCESA Q CSA R1B R4X9K419X. POA 5  
0057414 03640100225054002266 34023007160144022300 01060503402544022030 22650200056336072300 C A R/= R 1BXGNA9BS AFEC5U9BPXR B E 3GS  
0057420 01060553340740253406 36254025054530766010 30100574020005660200 21320100225001002315 AFES1G5U1F3U5UE+X HXHE B E B QZA R/A SM  
0057424 30741625601030140411 14013412140034111421 020003363036330560457 14003412341114210200 X NU HXLDILA1JL 1ILQB C3C X,D.L 1J1ILQB  
0057430 03360367010023453065 10061603601030451003 10663111100631651006 31123447106334461014 C3C A S+X HFNC HX+HCHFYIHFY HFYJ1\*H 1-HL  
0057434 31470354010023712000 37775400677614775400 67773057040654007011 17016170700030055400 Y+C-A S P 4 = L = X.DF= IOA XE=  
0057440 70053006540070061427 61707012560070121400 34071601540070072030 67760200056350007007 EXF= FLW J, JL IGNA= GPX B E / G  
0057444 34070100237101002442 30570404170161377000 14276170701230065400 70073007540070101400 1GA S A T7X.DDOA LW JXF= GXG= HL  
0057450 54006777540067762000 67760200056301002442 00000000000000000000 = = P B E A T7  
0057454 00000000010025113074 21000111601014003412 30742100010262601607 62100361440101002531 A U1X Q AI HL 1JX Q AB NG HC 9AA UY  
0057460 20007074340114056010 37116030331004643051 33301237057030301337 11373430301162303210 P 1ALE H4I XOH D X(OXJ4E XXX4141XXI XZH  
0057464 44013601035601002562 34013074162260103012 10663402300134123074 16226210300203600100 9A3AC,A U 1AX NR HXJH 1BX1JX NR HXBC A  
0057470 26023037110405045000 11660470140460103011 32101677107116053127 31561017510011771003 VBX41DED/ I D LD HX1ZHN H MEYWY,HD1 I HC  
0057474 54003003106354003002 30776335277214013412 14023411146002000336 14426010500030021277 = XCH = XBX 2W LA1JLB1IL B C3L7 H/ XBJ  
0057500 34131014530030033414 32111056040214131103 34125000117704123056 21777677060614760200 04260200051330141003 IKHL3 XCILZIH, DBLKIC1J/ I DJX,Q FFL B  
0057504 03360100274414003411 14550200033630113405 35203014342124003406 01002602305212010413 C3A W9L 1IL B C3XIIE2PXL1QT 1FDVB EKXHLHC  
0057510 16203272540021451063 55002144500001065400 22615400227302002132 03361402010012740002 NPZ = Q+H Q9/ AF= R = R B QZA VBX1JADK  
0057514 20004135341520330406 02000476020025121401 02002563040414470200 03361402010012740002 P 621MPODFB D B UJLAB U DDL\*B C3LBA J B  
0057520 01324430000000010000 01320044000000000100 30041400342714023435 34263056217776775400 A Z9X A AZ 9 A XDL 1NLB121VX,Q =  
0057524 15551403601030511237 10013110603034363030 55001452303154001453 30741620604016026010 M LC HX(J4HAYH X13XX L)XY= L5X NP 5NB H  
0057530 16046003163660601606 60302000030234173041 11200520570013723017 54001233540012355400 ND CN3 NF XP CB10X6IPEP. K X0= JO= J2=  
0057534 12635400110454001116 54001231300305113012 22007000314231410503 30333334053330311006 J = ID= IN= JYXCEIXJR Y7Y6ECX001EOXYHF  
0057540 06303052110104253074 21000101601016016040 30400515301010170712 30741670603030331377 FXX)IADUX Q AA HNA 5X5EMXH0GJX N XXOK  
0057544 31320503540011663074 16015400221416246030 16446010162160403043 12010412200014015400 YZEC= I X NA= RLNT XN9 HNO 5X8JADJP LA=



0060114 31026060306404343001 34333002343432121006 31333211054030113203 10143112320406071006 YB X D1XA10XB11ZJHFY0ZIE5XIZCHLYJZDFGHH  
0060120 31133207101431143210 17010505300334333004 34341466606001005553 01005673301610143317 YKZGHLYLZHOAEEXCLOXD1LL A SA, XNHL00  
0060124 16051071325607031401 03653016100631551006 31171604601017016006 17016030170160043013 NEH Z,GCLAC XNHFY HFYOND HOA FOA XDA DXK  
0060130 12373413101431141701 10713256065030113213 10143112321406423007 12373407301132071014 J4IKHLYLOAH Z,F/XIZKHLYJZLF7XGJ4LGXIZGHL  
0060134 31123210071530333213 10143134321406073033 32071014313432100603 01005704140001005673 YJZHGMOXZKMLYIZLFGXOZGHLYIZHFCA .DL A,  
0060140 01005774140534013074 16306101677630461014 31471607601030131277 34101105040530540503 A .LEIAX NX A X-HLY\*NC HXXJ LHIEXE=EC  
0060144 5400677620067773401 14003402500067760424 14013430360240010420 36013630110505723430 = P IAL 18/ DTLA1X3B5ADP3A3XIEE 1X  
0060150 30021105056554007026 30741634637070220323 36011400440136301704 07723002170134001002 XBIEE = VX N1 RCS3AL 9A3XODG XBOAI HB  
0060154 31005500607730741630 31006370677630101701 07361704063430741650 60101607603030776230 Y X NXY XHOAG3ODFIX N/ HNG XX X  
0060160 16016210140434111452 02000336307761706174 50006174041030741630 31026373617014033502 NA HLD1IL)B C3X / DHX NXYB LC2B  
0060164 30020425500051473102 34011071050330020313 30011277540052613071 52005147550052601277 XB0U/ (\*YBIAH ECXBCKXAJ = ) X ) (\* ) J  
0060170 55005237010057740011 74122322255533333333 33335733333355251624 2357555555500003055 )4A . I JSRU 000000.000 UNTS. X  
0060174 1006210000060133016 12773416020056740525 30161006315510063117 60100200655504120200 HFQ KXNJ INB, EUXNHFY HFYO HB DJB  
0060200 66060511500064717201 05055600650701006434 1400100624714046030 30273014335112370523 FEI/ DJAEE, GA 1L A \*LD CXWXLO(J4E5  
0060204 30301601600330031071 11740403570065013003 12771175041402006606 05035600641714023530 XXNA CXCH I DC. AXCJ I DLB FEC, DLB2X  
0060210 60103331054503143030 61707500140555006312 54006324230076200557 54007500140134013601 HOYE+CLXX LE J= TS PE.= LA1A3A  
0060214 11640503010062473055 10063101601030100470 30131237101433140460 16051071325606543400 I ECA \*X HFYA HXHD XKJ4HL0LD NEH Z,F=1  
0060220 30131237341610143314 34171014315510066010 16016030301312773114 05063400303334163034 XKJ4INHL0L10HLY HF HNA XXXJ YLEFL X01NX1  
0060224 34173016123734161006 31551006311760100200 65550421020066060506 14000504560065070311 10XNJ41NHFY HFYO HB DQB FEFL ED, GCI  
0060230 30000512305510063101 6013340034502005674 04030100632730113233 10143112323404703016 H X EJX HFYA K1 C+B, DCA WXIZOHLVJZ1D XN  
0060234 10063155100631176170 66265000663112031014 51006632106505515000 66321017073322000177 HFY HFYO V/ YJCHL( ZH E( / ZHOGOR A  
0060240 05422000000007102177 77770410060414760200 03361400550020751404 55006632301610063155 E7P GHQ DHFDL B C3L P LD ZXNHFY  
0060244 10063117637066262000 15005400663250006631 13775400663114666170 66331475540066331405 HFYO VP M = Z/ YK = YL OL = OLE  
0060250 54006637301610143317 01006247140101006554 14003402500275004070 33100516500275013311 = 4XNHL00A \*LAA =L 1B/B D OHEN/B AOI  
0060254 05125002750233120506 50027503331313770452 14053502035301006605 30102300172505723011 EJ/B BOJEF/B COKK D1LE2BC1A EXHS OUE XI  
0060260 23002420056630122300 25240562301313770357 30366135705030570502 14671701613570620100 S TPE XJS UTE XKK C.X3 2 /X.EBL OA 2 A  
0060264 44112000450754002237 30741650601016156030 30301071550047323054 05143010220024000410 91P +G= R4X N/ HNM XXXH \*2X=ELXHR T DH  
0060270 10650402140311021006 55004676500025050416 54004605500025041277 550046043027763702477 H DBLC1BHF - / UEDN= -E/ UDJ -DX T  
0060274 17016170500430741662 60103011540050103210 17010704140054005010 30741665603016106010 OA /DX N HXI= /HZHOAGDL = /HX N XNH H  
0060300 30110200700654006476 10635500647530301277 10143131043216015400 62121071325607062000 XIB F= H XXJ HLYDZNA= JH Z,GFP  
0060304 03115400540703173156 10715500621130715400 63252000620754006326 16375400644001006626 CI= -GCOY,H IX = UP G= VN4= 5A V  
0060310 15000100700512071107 04721107100321000010 03660000000000000000 3622100444000000043 M A EJGIGD IGHC HC 3RQ 9D 8  
0060314 01004411140054001164 20004424540022370366 01004423500011660573 30461014314716026030 A 9IL = I P 9T= R4C A 9S/ I E X-HLY\*NB X  
0060320 62601601601014033514 50001177040420002000 351430461101431471603 62102000200034303045 NA HLC2L/ I DDP P 2LX-HLY\*NC HP P 1XX+  
0060324 34343077623014260200 03363074166660103013 12773411117704061423 12773411117704061423 11X XLVB C3X N HXXJ 111 DFLS1KL.B C3X.  
0060330 62601701626020002511 34301402343132260703 01001273503000041071 11110427303054004535 OA P UI1XLB1YVZVGA J /X DH IIDWXX= +2  
0060334 14023401307763014534 17013457140154004661 20004662341520330406 02000476010046472077 LB1AX A+10A1.LA= - P - 1MPODFB D A -+P  
0060340 44444530207744445530 00014030137710033445 40301207100635455030 00011377107435455030 99+XP 99 X A5XK HCl+5XJGHF2+/X AK H 2+/X  
0060344 000112073545002002346 16026010160160033010 13775130000534105030 000634115003000111020 AJG2+B S-NB HNA CXHK IX E1H/X F11/X IHP  
0060350 07103007220036562300 40013407030420777600 35073046101431471602 62101601620314123530 GHXGR 3,S 5A1GCDP 2GX-HLY\*NB HNA CLJ2X  
0060354 14023531332604030100 45210100127300000000 20061500107300000710 01001615000000000000 LB2YOVDCA +QA J PFM H GHA NM  
0060360 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0060374 00000000000000000000 00000000000000000000 00000000000000000000 00000077002000000000 P  
0060400 00000000000000000000 00000000000000000000 00000004113400010000 000100000000000000000  
0060404 00000000000000000000 00000000000001001261 30551006210000000371 01001270306034112000 A J X HFQ CA J X IIP  
0060410 00003412140334131457 02000336036314033411 14510200033630110404 14760200033650001243 1JLC1KL.B C3C LC1IL(B C3X)DLD B C3/ J8  
0060414 04143457140154001503 20001504341520330406 02000476307763731355 14023411140034121460 DL1.LA= MCP MD1MPODFB D X K LB1IL 1JL  
0060420 02000336030414360200 03360100011400160076 00220000000000200052 00240000000000003433 B C3CDL3B C3A AL N R P ) T 10  
0060424 50001367340140013432 12033402010214020307 03130307203620100200 04760200127102000566 / K 1A5ALZJC18ABLBCGCKCP3PHB D B J B E  
0060430 03670200127103640000 00000000000001001425 54001433307763701432 17016040304313773443 C B J C A LU= LOX LZOA 5X8K 18  
0060434 140034440206101001444 140034025000214660400 53001635040414023502 03675002146734020102 L 19C A L9L 18/BL D = N2DDL828C /BL 18AB  
0060440 00001710207436513750 24472677525252110000 01001477140034033402 34003006107521007777 QHP 3(4/T+V )]]] A L L 1CLB1 XHF Q  
0060444 60103006120334015001 00101006061210713406 50000106350310633502 36000353107134073503 HXFJClA/A HHHFJH 1F/ AF2CH 283 C6H 1G2C  
0060450 1063350236001001477 02001271020012626010 16016040146660203014 22001776110134143013 H 2B3 A L B J B J HNA 5L PXL R O IAILKX  
0060454 13773413307134223041 10060605020012621606 62200200126262100100 13050100160150001120 K 1KX 1RX6HFFEB J NF P8 J HA KEA NA/ IP  
0060460 04032000000521001113 02001426036414003457 30741621617025705002 25731277540012233052 DCP EQ 1KB LVC L 1.X NQ U / U J = JSX)



0061030 44255000114713773305 54001147302454001150 50001144510011250503 01003667010026673075 90/ I\*K OE= I\*XT= I// I9( IUECA 3 A V X  
0061034 60103011137711203411 30551006160162100100 13053074210001026010 30111071311004040200 HXIK IP1IX HFNA HA KEX Q AB HXIH YH0DB  
0061040 13670057307762506040 30411377112034411400 34423074210001026240 10703411141502000336 K \_X / 5X6K IP16L 17X Q AB 5H 1ILMB C3  
0061044 01004040010041133431 50522600540025760200 16022000260034011440 02005345200025640200 A 55A 6K1Y/IV = U B NBP V 1AL5B \$P U B  
0061050 53454031040730310200 14261440020053452000 25640200534550001144 04102000114402001426 \$+5YDGXYB LVL5B \$P U B \$+ / 19DHP 19B LV  
0061054 14400200534520002566 02005345010041130100 41725052262310120672 20004252020014262000 L5B \$P U B \$+A 6KA 6 /IVSHJF P 7)B LVP  
0061060 4077342050226231011 06043020137734202000 53743415203302060200 04762400072130575400 5 1P/IVSHIFDXPK IPP \$ 1MPOBFB D T GQX.-  
0061064 12433004540012421400 34573020127704030100 41720200136740630200 136714372000615474747 J8XD= J7L 1.XPJ DCA 6 B K 5 B K L4PFM\*\*\*  
0061070 00000000010042571404 60203023101151001223 10033124160560203020 12073401500011501207 A 7.LD PXSHI( JSHCYTNE PXPJG1A/ I/JG  
0061074 04023401500146225400 12253020107112073401 50001150107112070402 34015001463254001230 DB1A/A-R= JUXPH JG1A/ I/H JG0B1A/A-Z= JX  
0061100 302011074120710013401 50001150107412070403 10013401500146425400 12265001464354001227 XPH JGH1A/ I/H JGDCH1A/A-7= JV/A-8= JW  
0061104 50522623101406270200 32033020106612071001 34015000115010661207 04031001340150014662 /IVSHLFWB ZXCPH JGH1A/ I/H JGDCH1A/A-  
0061110 54001226500146635400 12270100425701004405 30253401303634253001 34363026340130373426 = JV/A- = JWA 7.A 9EXUIAX3IUXA13XV1AX41V  
0061114 300134370361101004424 30141003160360003001 34063014100316203272 54004455106323002100 XA14C A 9TXLHCNC XA1FXLHCNPZ = 9 H S Q  
0061120 54004454300610060620 0417106721007776010 30061203341450140010 34065300117304040356 = 9=XHFHFPD0H Q HXFJCL/L HIF \$ I DDC,  
0061124 01002706020005135000 11745200010607020566 01004424010045053052 11120431500011632200 A WFB EK/ I ) AFGBE A 9TA +EXIIJDY/ I R  
0061130 77375400116350001163 22000700050520000200 55001163500011632200 70000505200040005500 4= I / I R G EEP B I / I R EEP 5  
0061134 11635000116310711207 17040606500011631066 17050703010027001604 I / I H JGODFF/ I H DEGCA W NDD OAD / I  
0061140 12371711066501004505 01004572307421000101 60103010107512015500 26225052262310070661 J40IF A +EA + X Q AA HXHH JA VR/IVSHGF  
0061144 02004713040301002700 50002622047303500000 000100003000500100015 00300000000000010002 B \*KDCA W / VRD C/ A C E H M X A B  
0061150 00030004000500100000 0000000000001000000 20000000500000010000 00050000001000000000 C D E H M P / A E H  
0061154 00000000000000001000 00002000000050000001 00000000500000100000 00000000010047023075 H P / A E H A \*BX  
0061160 60103011124003713410 01004712307416216010 30131277110004663074 21000101601030101017 HXIJ5C IHA \*JX NQ HXKJ I D X Q AA HXHHU  
0061164 06031501035530741677 60103014122011200403 01004711144360103013 12041104341030131201 FCMAC X N HXLJPIPDA \*IL8 HXKJDI01HXKJA  
0061170 11010100471214000100 47611440340140011071 04201745066640011277 04151745066136011143 IAA \*JL A \* L51A5AH DPO+ F 5AJ DMO+ F 3A1B  
0061174 05633043107117450753 03514001054736011143 05733043107105413040 03400100502154005027 E X8H O+G3C(5AE+3A18E X8H E6X5C5A /Q= /W  
0061200 30776370502617016040 30261207172123776777 54005152140560011401 34073003320134053040 X /VDA 5XVJG00S = ( )LE ALA1GXCZ1EX5  
0061204 05133407304312775100 05156000300410031604 60403705060301005021 51000515600030001071 EK1GX8J ( EM XDHCD 54EFC A /Q( EM X H  
0061210 12411140056430031006 07613004100316156010 17076011170260123010 22001020054530111065 J615E XCHFG XDHCHM HOG IOB JXHR HPE+XIH  
0061214 12013307054030403312 05263041331305233042 33140520304333151377 05143004100316056012 JA0GE5X50JEVX60KESX70LEPXX80MK ELXDHNE J  
0061220 17026010300705063016 10000703010050643713 54005164302610742200 51631601340731113406 OB HXGEFXXNH GCA / 4K= ( XVH R ( NA1GYIIF  
0061224 30151014073530113406 30041003162032725400 52161063230021005400 52153006100606201067 XMHLG2X1IFXDHCNPZ = )NH S Q = )MXHFFPH  
0061230 21007777601030061203 34145014001034063707 05613004010050211476 02000336150101005021 Q HXFJCL/L HIF4GE XDA /QL B C3MAA /Q  
0061234 01005241500005153105 60103006220037741075 34003010101006343014 10031602601030112100 A J6/ EMEY HXFR 4 H I XHHHFXLHCNB HXIQ  
0061240 01003100341410633110 23002000341330773412 14003411144502000336 30111006072130776010 A Y 1LH YHS P IKX 1JL 1IL+B C3XIHFGQX H  
0061244 03063014100316203100 60103006120321001012 54005326301410120100 52414501360236014002 CFXLHCNPY HXFJQC HJ= )VXLHJA J6+A3B3A5B  
0061250 13774401040543020567 54010001010053443402 40010463370236024002 10144501127704623601 K 9ADE8BE =A AA )9185AD 4B385BHL+AJ D 3A  
0061254 40021277100644010564 03552006155501202757 55052221272257000000 2006155511414050701 5700000011626011411 INVALID FAMILY. INVALID  
0061260 14552205212505232457 00002006155511162601 14110455060115111431 01001606010056360000 O PFC ADDRESS. 3PA NA F A NFA ,3  
0061264 04552006035501040422 05232357000000000000 36200100160100000661 03633001010016343403 A NNXFH Q HXFJCLIA/ A HC XAA N11C  
0061270 00000000000001001616 30061075210077776010 30061203340150010010 10060653107134061400 B E FCB L+/C A1A5CEE1A/ C AD.1GHRF3H IFL  
0061300 02000560060302001445 500300013401400330505 34010100163401001673 50660012346150660013 34623161051402004446 1G5CDC/C A1AA N1A N / J1 / K1 Y ELB 9-  
0061304 30615466001230625466 00130200242603535045 00011277041120001724 00011277041120001724 X = JX = KB TVCS/+ AJ DIP OTB UIX+B +  
0061310 03635066002410711100 05073003170207040200 13670130020044463061 54450002306254450003 C / TH I EGXC08G0B K AXB 9-X =+ BX =+ C  
0061314 30450200456502002426 01001673010017661237 34015400211620001421 32015400210530363137 X+B + B TVA N A O J41A= QNP HQZA= QEX3Y4  
0061320 04625066002410711102 04212000556434455066 00123461506600133462 31610406140155001366 D / TH 18DQP 1+/ J1 / K1 Y DFLA K  
0061324 02002261506600241277 34325066002410710517 30460505140434320100 21125046000610150770 B R / TJ 1Z/ TH EOX-EELD1ZA QJ/- FHMG  
0061330 10621217343203171102 04155000110605040200 13670060200007235400 20523046055230321710 H J01ZC018DM/ IF0B K P GS= PIX-E)XZ0H  
0061334 07130200136700105032 21251000067130320100 17665000122105662000 21151101040311020560 GKB K H/ZQUH F XZA O / JOE P QMIADCI B E  
0061340 14010363035700120004 00100000035603120212 01002135304504745066 00241071110204671103 LAC C. J D H C,CJBJA Q2X+D / TH 18D IC  
0061344 04043046046303033046 04261427601030715546 00061063554600053012 54460007301354460010 DDX-D CCX-DVLW HX - FH - EXJ-- GXK-- H  
0061350 30145446001130450200 45650326307763701106 17016170112550001124 54002224506600241277 XL-- IX+B + CVX IFOA IU/ IT= RT/ JA  
0061354 54001124020016742000 22235400112414276010 3012546600330135466 = ITB N P RS= ITLW HXJ= OKX= 1XL= 2A  
0061360 21350100224450001216 34060200421606703060 02001367015401002260 14003403360302002245 QZA R9/ JN1FB 7NF X B K A=A R L IC3CB R+  
0061364 3006544577530075445 77760200051330450200 05600603010024111402 34023045161434010312 XF=+ XG=+ B EKX+B E FCA TILB1BX+NLIACJ  
0061370 14123501140235025345 00010503010023735000 11060425530100000561 50010001530011070554 LJ2ALB28+ AECA S / IFDUSA E /A A3 IGE-





















0065400 10033415130741140605 10061340315510141014 51140001311503032377 77775401000110634501 HC1MKG6LFEHFK5Y HLHLIL AYMCCS =A AH +A
0065404 14023557010071401401 01007213340030061006 31551006310731006062 30623163316405613065 LB2.A 5LAA K1 XFHFY HFYGY X Y Y E X
0065410 123734653202010143166 32030751306532041014 31663205064314000342 14450200752530211201 J41 ZBHLV ZCGIX ZOHLY ZEF8L C7L+B UXQJA







0066654 3042220077603205400 30423064540030703065 54003071303554003107 30365400311030455400 X7R OP= X7X = X X = X X2= YGX3= YHX+  
0066660 304301002070603770014 22350377001300600060 22350377001300610067 03770012777701002240 X8A P C LR2C K R2C K C J A R5  
0066664 40270505304604250100 23425027000132450412 36451002314531271703 34041400344603533045 5WEEEX-DUA S7/W AZ+DJ3+HBY+WYOCIDL 1-C&X+

0067010 00000000000000000000 00000000000000000000 31211412340130531237 34531014315431011610 YQLJ1AX\$J41\$HLY-YANH  
0067014 10713256070414130100 26103053100631551006 31541610610130345000 30521201040657003052 H Z,GDLKA VHX\$HFY HFY=NH AX1/ X1JADF. X1  
0067020 14140100261050003051 12030505500030521065 04041412010026105000 30341071041650003037 LLA VH/ X1JCEE/ X1H DDLJA VH/ X1H DN/ X4  
0067024 10661103051120360431 02000476200040665400 37465000303505041402 H ICEIP3DYB D P 5 = 4-/ X2EDLBA VH/ X6D  
0067030 50003037127710145100 30405100304110713256 07050404140301002610 50003036176207042177 / X4J HL( X5( X6H Z,GEDDOLCA VH/ X30 GDQ  
0067034 76320704141101002610 50003036520030351611 06675000305612773460 50003057346150003063 ZGDLIA VH/ X3) X2NIF / X,J 1 / X.1 / X



0067564 17131713020031330100 21713062230060003411 12371007347414370200 03363011056030643411 0KOKB YOA Q X S I1J4HG1 L4B C3XIE X I1  
0067570 14003412142102000336 30110412140034111462 02000336020031330100 24353074162560103014 L 1JLQB C3XIDJL I1L B C3B YOA T2X NU HXL  
0067574 33650422306534111401 34121421020003363011 04111400341134121421 02000336010022203057 0 DRX 1ILA1JLQB C3XID1L I1IJLQB C3A RPX.  
0067600 17016030306235341071 34073057170162301400 34341466601030573410 340741621623016506210 0A XX 21H 1GX.OA XL I1L HX.IHX NO XN/ 4  
0067604 30071100040214011100 34013033127710143301 02003227320116036030 14666020303034202000 XGI DBLAI IAXOJ HLOAB ZWZANC XL PXXIPP  
0067610 0000505306334213212 06033012342130311006 34141063341330310402 14401140330110063412 EEX IQZJFCXJ1QXYHF1LH 1KXYOBL5150AHF1J  
0067614 30323411041020000106 60303031351110633130 34103074162262201601 62103007110004055700 XZ1IDHP AF XXY2IH YX1HX NR PNA HXGI DE.  
0067620 24142000230323340112 10143430107113773362 34311401343214003433 30573434145060103014 TLP SCS1AJHL1XH K O 1YLA1ZL 10X.I1L/ HXL  
0067624 04253077623014530200 03363011041630253411 10073474143702000336 20001401540024140100 DUX XL1B C3XIDNXUIHGI L4B C3P LA= TLA  
0067630 21714416010301022200 37773410144162103075 62300100011430411701 34013040052740010425 Q L6 HXHR 4 IHL6 HX XA ALX60A1AX5EWSADU  
0067634 12373411501135073263 06175011340735405011 34473536141502000336 40011237230040004401 J411/I2GZ FO/I1G25/I1+23LB C35AJ45 5 9A  
0067640 01002521140034623401 34023026050301002466 14206043304631473404 36013225065630011007 A UQL 1 IA1BXVECA T LP 8X-Y+103AZUF,XA1HG  
0067644 16206043160160103010 05623001340336013325 04133001100716206043 16016010301004651400 NP 8NA HXHE XA1C3A0UDKXAHGNP 8NA HXHD L  
0067650 03023047314632043404 32020616300432640707 30033462300434023264 04030100253501002521 CBX\*Y-ZD1DZBFNXDZ GXXC1 XD1BZ DCA U2A UQ  
0067654 30020464326406700361 01002622304134073037 31403405303531363406 30571701060430621007 XBD Z F C A VRX61GX4Y51EX2Y31FX.OAFDX HG  
0067660 16216010301312773442 37074007043112373401 50013347100607675001 35073263066320002000 NQ HXKJ 174G5GDYJ41A/AO\*HFG /A2GZ F P P  
0067664 4507200020005013347 50013407350550013447 35060345300532643405 07073006326506071500 +GP P AO\*/A1G2E/A1\*2FC+XEZ 1EGGXZF FGM  
0067670 01002622140001002622 34063105050301003006 30073404360440041237 34010467500133471007 A VRL A VRLFYECA XFXG1D3D5D41AD /AO\*HG  
0067674 06673005520134070763 34003006520134470756 34025001354733420515 30615201340707453403 F XE1A1GG 1 XFA1A1\*G,1B/A2\*07EMX 1A1GG+1C  
0067700 3060520134470403460 30033461300034053002 34064004220057774404 20775777550133470100 X J A1\*G51 XCL X IEXB1F5DR . 9DP . AO\*A  
0067704 27253607400704301006 07731001067110701237 34115011340735405011 34473536141502000336 WU3G5GDYHFG HAF H J411/I1G25/I1+23LMB C3  
0067710 40072200177723004000 44070346140101002622 01003043340220000000 04723401300202003244 5GR O S 5 9GC-LAA VRA X81BP D IAXBB Z9  
0067714 14005400304703620100 30610402140116623401 30621007350160101500 34143001621003610100 L = X+C A X DBLAN IAX HG2A HM ILXA HC A  
0067720 31001405600520003645 32055400313036056071 33070463301010060671 10030767301410031612 Y LE EP 3+ZE+ YX3E HOGD XHHFF HCG XLHCNJ  
0067724 60103010540536450357 01003132140004103057 60103062100635103057 6210140020030440361 HXH+E3+C.A YZL DHX. HX HF2HX. HL B X9C  
0067730 30575400304714000100 31553057340130776370 31711403020032440461 03640000000000000000 X.= X\*L A Y X.IAX Y LCB Z9D C  
0067734 00000100317614043442 30421014110402003227 30115442363330125442 36073013544236403014 A Y LD17X7HLIDB ZWXI=730XJ=73GXX=735XL  
0067740 54423614374206550350 01003226340010663500 14046010301310143114 31006010036301003243 =73L47F C/A ZV1 H 2 LD HXKHL1YLY HC A Z8  
0067744 54003250200032473412 30013411144202000336 30110362010032613074 107034252000017676010 = Z/P Z\*1JXA11L7B C3XIC A Z X H 1UP AW H  
0067750 30131207342714436010 30101014066050002154 54001674035300000000 34232000107300000334 XKJG1WL8 HXHHLF / Q= N C4 1SP H CI  
0067754 14003425020012060727 20000127601030131204 55001561020016720200 14510200173502002024 L IUB JFGWP AW HXKJD M B N B L1B D2B PT  
0067760 20000111623030460403 02002123302534010415 55001160144160102077 37773510144162101454 P AI XX-DCB QXULADM I L6 HP 4 2HL6 HL=  
0067764 02000336307410705501 11643075637011630100 01143423120000000000 00003403130000020000 B C3X H AI X I A AL1SJ ICK B  
0067770 00003404230000220000 77641444637314240100 12052000010660301400 34463074340703112000 1DS R L9 LTA JEP AF XL 1-X 1GCIP  
0067774 77763221076234013045 5401142420777573507 0471070344530071621 60101651602030100463 ZQG IAX+=ALTP 2GD\*H 1+XGNQ HNI PXHD  
0070000 301312773401117050656 30201071040517060651 16063401300716226020 1601660162560023003 XKJ 1AOEF,XPH DEOFF(NF1AXGNR PNA NU HXC  
0070004 13375445137435463021 21770014070301001217 30212177767706030100 12272177011706733062 K4=+K 2-XQQ LGCA JOXQQ FCA JWQ AOF X  
0070010 10711237540013553001 11030507300210070723 10020721030630071664 60100200264602002346 H J4= K XA1CEGXBHGSGHBGGCFCXGN HB V-B S-  
0070014 07100200232405050200 26170625140010563402 30011014230013540200 27343007162260203011 GHB STEEB VOFUL H,1BXAHL8 K=B W1XGNR PXI  
0070020 34033221070330020403 02002537010012270000 00000000000000000000 00000000000000000000 1CZQGCBDCB U4A JW  
0070024 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000  
0070030 00000000000000000000 00000000141534111404 02000336010014501402 34111412020003361402  
0070034 61143220301110015500 14613447140460301415 34111412020003361402 35306010333104403010  
0070040 04713014134010141710 06641610340250021661 34013014124023002000 54001542301312771705  
0070044 06451605101433011006 54001543101402002734 20000000234001000054 20007760341230301601  
0070050 60203002110404203014 16000513302432110710 702043212060536243030 16016220010014763020  
0070054 10714447117705103724 05643722073715003424 03571177050430221101 04253724042530225447  
0070060 00014147044330301601 54470002302454470003 30125447000414053547 03143024341230306040  
0070064 30123424303002002214 3030624001001572000 00010002000200010000 00000000010016711404  
0070070 60301400340134023033 10113101100331343102 60103614321307031400 34143033101131011003  
0070074 31343102621036021103 05523402360111050546 01001671010017345000 14613430324706715030  
0070100 00013411200032203402 53001461046050020001 33110504403043020411 14023502530014610564  
0070104 14053530034650300002 60201701694050300004 34245030000217010200 22145030000262201701  
0070110 62400100177014743430 14123425010020231405 60201443601016466030 37310610141734312000  
0070114 30075400207403115000 14360554373006043011 10130643372260403320 04433040100606713043  
0070120 10640566304410031601 601016146007203061204 04041405010020223014 10060714300713070444  
0070124 22004010054130071010 060330120570201002017 01002122307410703445 37450471504513740473











0071750 00000000000000000000 00000000000000000000 54110201230331000143 01300000006100046000 -IBASCY ABAX D  
0071754 04000001476100046000 00000000006100046000 51100000010311000145 54610040000014346000 D A\* D D (H ACI A\*= 5 LI  
0071760 51100001411061146000 51100000660321000152 511000001421061146000 51600001435110000001 (H A6H L (H CQ A)(H A7H L ( AB(H A  
0071764 10611010000014246000 20652010000014446000 51100000010311000155 00000000006100046000 H HH LT P PH L9 (H ACI A D  
0071770 51100000010311000156 71602203140400000154 71102203142760120652 12662010000014446000 (H ACI A, RCLD A= (HKCL W JF J PH L9 D  
0071774 00000000006100046000 53120201730331000163 03010001635110000001 03010001610400000164 D \$JBA CY A CA A (H ACA A D A  
0072000 20151460006100046000 71601523072065212661 01000001446100046000 00000000006100046000 PML D MSGP QV A A9 D D  
0072004 20630121617361020123 03210001672015113116 20636516000017774660 12116040000017046000 P AQ BASCO A PHIYNP N D - JE 5 DD  
0072010 00000000000000000000 55111414050701145503 17152011140522552320 05031106110504570000 ILLEGAL COMPILER SPECIFIED.  
0072014 00000000000000000000 01022001411406011073 01040301411406031073 02012401411406151073 ABPA6LFMH ADCA6LFCM BATA6LFMH  
0072020 03111744647703401073 03152301411406271205 03200401411406341073 03201501411406451073 CIO9 C5H CMSA6LFWJECPDA6LFIH CPMA6LFIH  
0072024 03203401411406531073 03223401411406661073 03253001411407011073 03261401411407021073 CPIA6LFSH CRIA6LFH CUXA6LGCH CVLA6LGBH  
0072030 04040601411407101073 04112301411407121073 04170701411407261073 04232001411407321073 DDA6LGGH DISA6LGJH DQGA6LGWH DSPA6LGGZ  
0072034 04233401411407431073 05141501411407521073 05302501411407541073 05310501411407561073 DSIA6LGGH ELMA6LGGH EXUA6LGGH EYEA6LGGH  
0072040 06042001411407661073 06242001411410001073 10061501411410071073 11140401411410111073 FDPALGH H FTPALGH H HFMA6LGHM LDA6LHHH  
0072044 11152301411410131073 14040445274404251073 14042145337101671073 14042245265700651073 IMSA6LHKK LOD+W9DUH LOQ+O A H LDR+V. H  
0072050 14061545474402741073 14203401411410251073 15140401411410351073 17252401411410431073 LFM+\*9B H LPIA6LHMH MLDA6LH2H OUTA6LH8H  
0072054 17354101411410461073 20061546035607101073 20062501411410611073 20112001411410711073 Q26A6LH-H PFM-C,GHH PFUA6LH H PIPA6LH H  
0072060 21010347030703621073 21012001411410771073 21061501411411031073 22041501411411141073 QAC+CGC H QAPA6LH H QFMA6LICH RDMA6LILH  
0072064 22202645610002771073 23022001411411211073 23061501411411231073 23112001411411341073 RPV+ B H SBPA6LIQH SFMA6LISH SIPA6LIH  
0072070 23141401411411441073 23152001411411551073 23200401411411601073 23241501411411611073 SLLA6LI9H SMPA6LI H SPDA6LI H STMA6LI H  
0072074 24032345112410431073 24143001411411651073 24150701411411671073 26051201411411731073 TCS+ITH8H TLXA6LI H TMGA6LI H VEJA6LI H  
0072100 27221501411411761073 30232001412700031073 33012501412700060000 3301264543601730000 WRMA6LI H XSPA6W CH OUA6W F OAV+83A  
0072104 33020645412500760000 33022001412700070000 33031101412700150000 33040645422301130000 OBF+6U O8PA6W G OCIA6W H ODF+7SAK  
0072110 33060145462300240000 33201101412700160000 33220645464700750000 33222045453100720000 OFA-S T OPIA6W N ORF+\* ORP+\*Y  
0072114 33241101412700170000 33261201412700200000 34011245076401401073 34030401412700231073 OTIA6W Q OVJA6W P LAJ+G A5H LCDA6W SH  
0072120 34031201412700351073 34031345356001761073 34040346647104611073 34040447127700541504 ICJA6W 2H ICK+2 A H IDC- D H IDD+J -MD  
0072124 34041447075701001073 34042301412700441073 34050401412700571073 34111746715202301073 IDL\*G.A H IDSA6W 9H IEDA6W .H IIO- IBXH  
0072130 34112301412700701073 34142346635201171073 34142401412700741073 34150145375601471073 IISA6W H ILS- IADH ILTA6W H IMA+4,A\*H  
0072134 34150247165000371073 34152201412700771073 34152446471203541073 34221145637703551073 IMB\*N/ 4H IMRA6W H IMT+\*JC-H IRI+ C H  
0072140 34221745722004701073 34222001412701071073 34231101412701101073 34231246740203511073 IRO+ PD H IRPA6WAGH ISIA6WAMH ISJ- BC(H  
0072144 34232046775303341073 34240146317602551073 34240401412701124176 34240501412701201073 ISP- \$C1H ITA-Y B H ITDA6WAJ6 ITEA6WAPH  
0072150 34241601412701304176 34241746377603661073 34242001412701361073 34242301412701401073 ITNA6WAX6 ITD-4 C H ITPA6WA3H ITSA6WA5H  
0072154 35030144703700623227 35030244712101211600 35030344724201752422 35030444743703751600 2CA9 4 ZW2CB9 QAOZ C2C9 7A TR2CD9 4C N  
0072160 35030545003400344362 35030645007002423227 35030745033203364362 35031045067000201600 2CE+ 1 18 2CF+ B7ZW2CG+CZC38 2CH+ F PN  
0072164 35031145071000541600 35031201412701463227 35031301412701474575 35031401412701514625 35031401412701514625 2CI+GH -N 2CJA6WA-2W2CKA6WA+\* 2CLA6WA(-R  
0072170 351104014127015335350 35111601412701545327 35112001412701564622 3511201412701574622 3112101412701574622 2IDA6WA\$%/2INA6WA-\$W2IPA6WA,-R2IOA6WA.-R  
0072174 35112201412701615350 351140401412701621073 35150101412701632117 35150201412701652117 35150201412701652117 2IRA6WA \$/2LDA6WA H ZMAA6WA QO2MBA6WA QO  
0072200 35150301412701661073 35150401412701671204 35222001412701731073 35230101412701741136 35230101412701741136 2MCA6WA H 2MDA6WA JD2RPA6WA H 2SAA6WA I3  
0072204 35230201412701761136 35230301412702061136 35230401412702071136 35230501412702111136 35230501412702111136 2SBA6WA I32SCA6WBF I32SDA6WBG I32SEA6WB I3  
0072210 35240401412702201073 35241601412702321073 35241746436403263231 36010105412702441647 36010105412702441647 2TDA6WBPH 2TNA6WBZH 2TO-8 CVZY3AAA6WB9N\*  
0072220 36010201412702511647 36010301412702604635 36010401412702611501 3601054127026334635 36020101412702663267 3ABA6WBIN\*3ACA6WB -23ADA6WB MA3AE+Q CC-2  
0072224 36010645247201655056 36010701412702621647 36011001412702655056 36020101412702663267 36020501412702753267 3AF+T A /,3AGA6WB N\*3AHA6WB /,3BA6WB Z  
0072230 36020201412702703267 36020301412702723267 36020401412702743267 36020501412702753267 36020501412702753267 3BBA6WB Z 3BCA6WB Z 3BDA6WB Z 3BEA6WB Z  
0072234 36020601412702764051 36030101412703001610 36030201412703031610 36030301412703061610 36030301412703061610 3BCA6WB 5(3CAA6WC NH3CBA6WCCNH3CCA6WCFNH  
0072240 36031301412703072151 36040101412703121446 36040101412703144056 36043201412703154056 36043201412703154056 3FAA6WCCQ(3DAA6WCLJL-3DYA6WCL5,3DZA6WCM5,  
0072244 36060101412703173145 36060201412703253145 36110101412703272527 36110201412703313746 36110201412703313746 3FAA6WCQY+3FBA6WCQY+3IAA6WCWUW3IBA6WCY4-  
0072250 36110301412703324205 36110401412703342527 36140101412703371754 36140245524002671754 36140245524002671754 3ICA6W CZ7E JIDA6WCUW3LAA6WC4Q=3L8+15B U-  
0072254 36140301412703411754 36140401412703441754 36140501412703461754 36140501412703461754 3614064552702011754 3LCA6WC6D=3LDA6WC9D=3LEA6WC=U=3LF+ WBAO=

0072314 36200246214701064657 36200301412704764657 36200446225502204657 36200501412705001477 3PB-Q\*AF-.3PCA6MD -.3PD-R BP-.3PEA6WE L  
0072320 36200601412705054657 36200746247502014657 36201001412705071477 36201146267601721615 3PFA6WEE-.3PG-T BA-.3PHA6WEGL 3PI-V A NM  
0072324 36201201412705154657 36201346307001061673 36201401412705162375 36201501412705171615 3PJAG6WEM-.3PK-X AFN 3PLA6WENS 3PMA6WEONM  
0072330 36201601412705214657 36201701412705226771 36202001412705234657 36210101412705253163 3PNA6WEQ-.3POA6WER 3PPA6WES-.3QAA6WEUY  
0072334 36210201412705273163 36210301412705303163 36210401412705323163 36212201412705345773 3QBA6WEWY 3QCA6WEXY 3QDA6WEZY 3QRA6WE1.  
0072340 36212347067100663363 36212401412705353363 36212501412705403363 36220601412705425436 3QSF 0 3QTA6WEZ0 3QUA6WE50 3RFA6WE7-3  
0072344 36220701412705445436 36221045675402445436 36221101412705465436 36222045771004034404 3RGA6WE9-33RH+ -B9-33RIA6WE--33RP+ HDC9D  
0072350 36222146031300434404 36230101412705473710 36233201412705503063 36240101412705542554 3RO-CK 89D3SAA6WE\*4H3ZA6WE/X 3TAA6WE-U=  
0072354 36240201412705552554 36240301412705572554 36240401412705632554 36240501412705657001 3TBA6WE U=3TCA6WE.U=3TUA6WE U=3TEA6WE A  
0072360 36240601412705664071 36240701412705672554 36241001412705712554 36241101412705722554 3TFA6WE 5 3TGA6WE U=3THA6WE U=3TIA6WE U=  
0072364 36241246357002062554 36241346345301152554 36241401412705752554 36241501412705772554 3TJ-2 8FU-3TK-1SAMU-3TLA6WE U=3TMA6WE U=  
0072370 36241601412706012554 37040101412706023000 37040201412706103463 37040301412706155102 3TNA6WFAU=4DAA6WFBX 4DBA6WFH1 4DCA6WFH10  
0072374 37040401412706164426 37040501412706214426 37040601412706245102 37040701412706265102 4DDA6WFN9V4DEA6WFO9V4DFA6WFT184DGA6WV1B  
0072400 37041001412706315102 40020101412706326762 40020201412706336762 40032501412706344473 4DHA6WFY(B5BAA6WFZ 5BBA6WFO 5CUA6WF19  
0072404 40060601412706404473 40061001412706454473 40110101412706524205 40110301412706534205 5FFA6WF59 5FHA6WF+9 5IAA6WF)7E5ICA6WF57E  
0072410 40110401412706544205 40110501412706554205 40110701412706574205 40111001412706614205 5IDA6WF=7E5IEA6WF 7E5IGA6WF.7E5IHA6WF 7E  
0072414 40141401412706634473 40150501412706706776 40152201412706717272 40152301412706727272 5LLA6WF 9 5MEA6WF 5MRA6WF 5MSA6WF  
0072420 40152401412706734473 40152501412707004473 40152701412707057272 40232501412707064473 5MTA6WF 9 5MUA6WG 9 5MWA6WGE 5SUA6WGF9  
0072424 40232601412707136202 40373401412707154473 40403001412707224473 40413001412707274473 5SVA6WCK B541A6WGM9 55XA6WGR9 56XA6WGW9  
0072430 40423001412707344473 40430601412707414473 40431001412707464473 40433001412707534473 57XA6WG19 58FA6WG69 58HA6WG-9 58XA6WGS9  
0072434 41041147146100510556 42041147153400477500 42052047137500337574 42230547135400207662 6DI\*L (E,7DI\*M1 \* 7EP\*K 0 7SE\*K=P  
0072440 42231147160400347567 42271147164100077737 43300101412707601462 43300201412707701577 7SI\*ND 1 7WI\*N6 G 48XAA6WG L 8XBA6WG M  
0072444 43300301412707751577 44010101412707760000 44013447106000476227 44014047113000366227 8XCA6WG M 9AAA6WG 9A1\*H \* W9A5\*IX 3 W  
0072450 44014147116700506227 44014247124000376227 44020101412710406222 44050101412710727001 9A6\*I / W9A7\*J5 4 W9BAA6WH5 R9EAA6WH A  
0072454 44060101412711317436 44070101412711336336 44110101412711441773 44120101412711707773 9FAA6WIY 39GAA6WIO 39IAA6WI9D 9JAA6WI  
0072460 4432010141300023111 44330101413000125703 00000147143000311073 00000000000000000000 9ZAA6X BYI9AA6X J.C A\*LX YH  
0072464 02032300000000000000 0000000000040040736 02030600000000000000 00000000000040040770 BCS 5DG3BCF 5DG  
0072470 06150400000000000000 0000000000040041022 23312305041124000001 05720000000040041102 FMD 5DHRYSYSEDIT AE 5DIB  
0072474 40040000000000000236 01202005160400000014 00170000000040050345 01242401031000000000 5D B3APPEND L O SEC+ATTACH  
0072500 03100116070500000000 04050611160500000000 07052400000000000000 16052700000000000000 CHANGE DEFINE GET NEW  
0072504 17140400000000000000 20010313160115000000 20052215112400000000 20252207050000000000 OLD PACKNAM PERMIT PURGE  
0072510 22052014010305000000 23012605000000000000 40100000000000000000 20060124033400000000 REPLACE SAVE SH PFATCI  
0072514 00000000000040050362 20060301243400000000 0000000000040050405 20060317203134000000 SEC PFCAT1 SEDEPFCOPY1  
0072520 00000000000040050452 20060425152034000000 0000000000040050476 20061417010434000000 5EDI)PFDUMPL SED PFL0AD1  
0072524 00000000000040050554 20062300000000000006 00260000000040050636 20061417010400000000 5EE=PFS F V 5EF3PFL0AD  
0072530 20060425152000000000 20060301240000000000 20060124030000000000 20060317203100000000 PFDUMP PFCAT PFATC PFCOPY  
0072534 40040000000000000155 20252207011414000000 00160000000040050663 03171606110700000000 5D A PURGALL N SEF CONFIG  
0072540 00360000000040050725 11162324011414000001 0106000000040050750 40040000000000000125 3 5EGUINSTALL AAF 5EG/5D AU  
0072544 15231100000000000002 00630000000040050754 06140127000000000000 40040000000000003726 MSI B 5EG=FLAW 5D 4V  
0072550 15220503000000000001 00300000000040051013 00400000000000000106 01030317251624000003 MREC A X 5EHK5D AFACCOUNT C  
0072554 00060000000040060127 06011511143100000000 25230522000000000000 40160000000000000252 F 5FAWFAMILY USER 5N B)  
0072560 03100122070500000001 00220000000040060134 404600000000000001014 11230600000000000001 CHARGE A R 5FA15- HLISF A  
0072564 00220000000040060155 40040000000000000125 1517042601140000003 01770000000040060170 R 5FA 5D AUMODVAL CA 5FA  
0072570 14111511242300000000 20012323271722000000 40140000000000014372 20221706111405000001 LIMITS PASSWOR 5L AB PROFILE A  
0072574 01370000000040060326 404400000000000002516 23062300000000000000 0000000000040060417 A4 5FCV59 UNSFS 5FDD  
0072600 05353333032000000000 00400000000040060635 13242304152000000000 00710000000040060651 E200CP 5 5FF2KTSDMP 5FFI  
0072604 14110224012313000000 02510000000040060666 04012401040506000000 0000000000040061025 LIBTASK B1 5FF DATADEF 5FNU  
0072610 04012401150120000000 0000000000040061170 04020617221500000000 0000000000040070104 DATAMAP 5F1 DBFURN 5GAD  
0072614 24010616011500000000 0000000000040070254 24010616011501000000 0000000000040070402 TAFNAM 5GB=TAFNAMA 5GDB  
0072620 24010616011502000000 0000000000040070406 24010616011503000000 0000000000040070411 TAFNAMB 5GDF=TAFNAMC 5GDI  
0072624 24010616011504000000 0000000000040070414 24010616011505000000 0000000000040070417 TAFNAMD 5GDL=TAFNAME 5GDU  
0072630 24010616011506000000 0000000000040070422 24010616011507000000 0000000000040070425 TAFNAMF 5GUR=TAFNAMG 5GDU  
0072634 24010616011510000000 0000000000040070430 24010616011533000000 0000000000040070431 TAFNAMH 5GDXTAFNAMO 5GDU  
0072640 24010616011534000000 0000000000040070514 24010616011535000000 0000000000040070611 TAFNAMI 5GEL=TAFNAM2 5GFI  
0072644 24010624230000000000 0000000000040070624 24010624230100000000 0000000000040070732 TAFTS 5GFTTAFTSA 5GGZ  
0072650 24010624230200000000 0000000000040070736 24010624230300000000 0000000000040070741 TAFTSB 5GG3TAFTSC 5GG6  
0072654 24010624230400000000 0000000000040070744 24010624230500000000 0000000000040070747 TAFTSD 5GG9TAFTSE 5GG#

RA = E,35700,76000. EXPRES 11 DSDI - V2.0 79/10/30. 15.19.50. PAGE 78  
00000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP.

0072660	24010624230600000000	00000000000040070752	24010624230700000000	00000000000040070755	TAFTSF	5GG	TAFTSG	5GG
0072664	24010624231000000000	00000000000040070760	24010624233300000000	00000000000040070761	TAFTSH	5GG	TAFTSO	5GG
0072670	24010624233400000000	00000000000040071044	24010624233500000000	00000000000040071141	TAFTS1	5GH9	TAFTS2	5GI6
0072674	01230311110000000002	00030000000040100323	03230524000000000000	20012211243100000000	ASCII	B C	5HCSCSET	PARITY
0072700	26011416052400000000	00000000000040100325	24051405300000000001	05200000000040100443	VALNET	5HCUTELEX	AEB	5HD8
0072704	40040000000000000000	24051405303400000000	00000000000040100546	24051405303500000000	5D	TELEX1	5HE-TELEX2	
0072710	00000000000040100643	24051405303600000000	00000000000040100644	11010605300000000001	5HF8TELEX3		5HF9IAFEX	A
0072714	04730000000040100706	40040000000000000000	11010605303400000000	00000000000040101001	5HGF5D	IAFEX1		5HHA
0072720	11010605303500000000	00000000000040101101	11010605303600000000	00000000000040101102	IAFEX2	5HIAIAFEX3		5HIB
0072724	11010605303700000000	00000000000040101112	02140116130000000001	00160000000040101156	IAFEX4	5HIJBLANK	A N	5HI,
0072730	40440000000000000134	15010716052400000000	01000000000040101172	15010716052434000001	59	K8MAGNET	A	5HI MAGNET1 A
0072734	41000000000040110011	40040000000000000000	01232311071600000010	00740000000040110017	6	5I I5D	ASSIGN	H 5I 0
0072740	14010205140000000000	22052125052324000000	22052317252203000000	26231600000000000000	LABEL	REQUEST	RESOURC	VSN
0072744	14061500000000000000	20061500000000000000	22052100000000000000	40640000100000000224	LFM	PFM	REQ	5 H BT
0072750	06112215414130000000	00000000000040110251	03012401141707000001	01070000000040110304	FIRM66X		5IB(CATALOG	AAG 5ICD
0072754	40010000000000000000	03012414112324000000	00420000000040110322	03132000000000000002	5A	CATLIST	7	5ICRCKP B
0072760	01020000000040110347	23062000000000000000	40240000000000000253	03171515051624000023	AB	5IC+SFP	5T	5ICOMMENT S
0072764	00150000000040110366	05301124000000000000	15061400000000000000	15170405000000000000	M	5IC EXIT	MFL	MODE
0072770	16170530112400000000	16172205222516000000	17160530112400000000	17162327000000000000	NOEXIT	NORERUN	ONEXIT	ONSW
0072774	17060623270000000000	20221724050324000000	22052225160000000000	22061400000000000000	OFFSW	PROTECT	RERUN	RFL
0073000	22171414172524000000	23052401231400000000	23052412231400000000	23052420220000000000	ROLLOUT	SETASL	SETJSL	SETPR
0073004	23052424140000000000	23251100000000000000	23271124031000000000	25230503202500000000	SETTL	SUI	SWITCH	USECPU
0073010	03011414000000000002	00450000000040110402	07172417000000000000	40040000000000000000	CALL	B +	5IDUGTO	5D 5
0073014	11060000000000000001	00160000000040110415	40400000000000000000	03171626052224000000	IF	A N	5IDM55	CONVERT
0073020	00760000000040110426	03172031000000000006	01220000000040110444	03172031020600000000		5IOVCOPI	FAR	5ID9COPYPB
0073024	03172031051100000000	03172031022200000000	03172031300000000000	24031720310000000000	COPYE1	COPYBR	COPYX	TCOPY
0073030	40010000000000000000	03172031230206000003	00520000000040110506	03172031030600000000	5A	COPYSBF	C J	5IEFCOPYCF
0073034	03172031032200000000	40010000000000000000	03172031414200000000	00560000000040110516	COPYCR	5A	COPY67	5IEN
0073040	03172031424100000000	00560000000040110523	04050400000000000013	40530000000040110530	COPY76		5IEDED	K5 5IEX
0073044	04052000000000000000	04150405032300000000	04152005032300000000	04150400000000000000	DEP	DMDECS	DMPECS	DMD
0073050	04152000000000000000	14020300000000000000	14170300000000000000	20020300000000000000	DMP	LBC	LDC	PBC
0073054	22022200000000000000	27022200000000000000	40200000010053000000	03261400000000000001	RBR	WBR	5P A 5	CVL A
0073060	00030000000040110603	40240000100000000000	04013106111405000004	01020000000040110605	C	5IFC5T H	DAYFILE	DAB 5IFE
0073064	01060400000000000000	04060400000000000000	05140400000000000000	40400000000000000000	AFD	DFD	ELD	55
0073070	04170315051624000000	61150000000040110630	05041124000000000001	01200000000040110666	DOCMENT	M	5IFXEDIT	AAP 5IF
0073074	40010000000000000000	05162125112205000004	00340000000040110733	14051607241000000000	5A	ENQUIRE	D I	5IGOLENGTH
0073100	23240124252300000000	23251515012231000000	40040000000000000000	06031720310000000000	STATUS	SUMMARY	5D	FCOPY
0073104	00450000000040110757	02132320000000000017	00100000000040110772	03171515171600000000		5IG.BKSP	0 H	5IG COMMON
0073110	04112320172305000000	05261103240000000000	14170313000000000000	17252400000000000000	DISPOSE	EVICT	LUCK	DUT
0073114	20221115012231000000	22051601150500000000	23131120051100000000	23131120060000000000	PRIMARY	RENAME	SKIPEI	SKIPF
0073120	23131120060200000000	23131120220000000000	23052411040000000000	25161417031300000000	SKIPFB	SKIPR	SETID	UNLOCK
0073124	27221124050600000000	27221124052200000000	06162414232434000000	00000000000040111001	WRITEF	WRITER	FNTLST1	5IHA
0073130	10051420000000000000	003100000000000111026	07242200000000000001	62570000000040111053	HELP	Y	5IHVTR	A . 5IHS
0073134	03172031220600000000	14110205041124000001	00000000000040111073	40010000000000000000	COPYRF	LIBEDIT	A	5IH 5A
0073140	14112324140200000001	00350000000040111141	40400000000000000000	14112324433300000000	LISTLB	A 2	5I1655	LIST80
0073144	00550000000040111155	14174235000000000000	00410000000040111172	03140501220000000003		5II L072	6	5II CLEAR C
0073150	00100000000040120026	22052425221600000000	22052711160400000000	25161417010400000000	H	5J VRETURN.	REWIND	UNLOAD
0073154	15231722240000000000	00000000000040120032	16172405000000000001	00100000000040120036	MSORT		5J ZNOTE	A H 5J 3
0073160	05162405220000000000	20010313000000000000	00270000000040120044	22052305210000000000	ENTER	PACK	W	5J 9RESEQ
0073164	00600000000040120051	22052324012240000001	01020000000040120071	40240000450000400000		5J (RESTART	AAB	5J 5T + 5
0073170	22172524050000000000	00070000000040120106	23172224000000000000	61400000000040120114	ROUTE	G	5JAFSORT	5
0073174	23250215112400000000	01010000000040120125	24042515200000000000	00620000000040120144	SUBMIT	AA	5JAUTDUMP	5JAL
0073200	24221504050600000000	00170000000040120157	26052211063100000001	01330000000040120175	TRMDEF	0	5JA.VERIFY	AAD 5JA
0073204	40010000000000000000	26063114110200000001	62070000000040120216	40010000000000000000	5A	VFYLIB	A G	5JBN5A
0073210	30050411243534100000	01420000000040120234	30050411240000000000	01130000000040120402	XEDIT21H	A7	5JBIXEDIT	AK 5JDB
0073214	30050411243400000000	00000000000040120467	30050411243500000000	00000000000040120513	XEDIT1		5JD XEDIT2	AK 5JEK
0073220	13221716220506000000	63420000000040120530	15170411063100000000	03710000000040120552	KRONREF	7	5JEXMODIFY	C 5JEL

Field Name	Code	Value	Code	Value	Code	Value	Code	Value
ZERO WORD		000000		00000000000000000000		CPU 0 OFF		ACPL 000060 0
FWA RESIDENT PP LIB	RPLP	000001		00046477	D T			0000000
NUMBER OF PP-S	PPUL			0024		CPU 0 CP ASSIGNMENT		0000
CPU CONFIGURATION	CPUL			0075		CPU 0 EXCHANGE ADDRESS		00045776
MEMORY SIZE/100	MFL			7777		CPU 1 OFF		000061 0
FWA PP LIBRARY DIR	PLDP	000002		00072015	GPM T=			0000000
				0000		CPU 1 CP ASSIGNMENT		1600
NUM OF CONTROL POINTS	NCPL			0024		CPU 1 EXCHANGE ADDRESS		00001600
ADDRESS PP COMM AREA	PPCP			5400				
FWA DF BUFFER POINTERS	DFPP	000003		5640	,5 DL/ C	ADDRESS OF PPU2 XP	PXPP 000062	000000000000
FWA DF DUMP BUFFER				00041450		FIRST WORD OF PP XP		00046016
DAYFILE DUMP ENABLED				0000		RESERVED	000063	00043224000000000000
NUMBER OF EXCESS DF				0003		RESERVED	000064	00000000000000000000
FWA FILE NAME TABLE	FNTP	000004		6020	P C,	ZERO LOCATION	ZERL 000066	00000000000000000000
LWA+1 FILE NAME TABLE				7776		RESERVED CPUMTR/MTR	000067	00000000000000000000
				0000			000070	00000000000000000000
FWA JOB CONTROL AREA	JBCP			00035670			000071	00000000000000000000
FWA EQUIP STAT TABLE	ESTP	000005		5720	.P P.		000072	00000000000000000000
LWA+1 EQUIP STAT TABLE				6020			000073	00000000000000000000
LWA+1 OF MS EQUIPMENTS				5760			000074	00000000000000000000
FWA ECS/PP BUFFER				00000000			000075	00000000000000000000
RESERVED		000006		00010016	A N G,0	RESERVED	MTRL 000076	040000007600
FWA USER LIBRARY DIR.	LRDP			00075633		CPUMTR EX ADD FOR MTR		00000000
ECS SIZE/1000	MFL			0000		EQ CPSL	CPSL 000077	0004313200
FWA CPU LIBRARY DIR	CLDP	000007		00072464	GT G.F F	PS 0		0000000436
FWA -COS- FORMAT CLD				00075706		CHANNEL 0,1,2,3,4	CTIL 000100	00000015000000000007
				00		CHANNEL 5,6,7,10,11	000101	00030000001100010000
ACCFAM FIELD LENGTH				06		CHANNEL 12,13,14,15,16	000102	00170000000000000000
INSTALLATION WORD 0	IN0L	000010		00000000000000000000		CHANNEL 17,20,21,22,23	000103	00000000000000000000
INSTALLATION WORD 1	IN1L	000011		00000000000000000000		CHANNEL 24,25,26,27,30	000104	00000000000000000000
INSTALLATION WORD 2	IN2L	000012		00000000000000000000		CHANNEL 31,32,33,34,35	000105	00000000000000000000
INSTALLATION WORD 3	IN3L	000013		00000000000000000000		RT CLOCK IMAGE - SEC	RTCL 000106	00103257
INSTALLATION WORD 4	IN4L	000014		00000000000000000000		RT CLOCK IMAGE - MS		000203417074
INSTALLATION WORD 5	IN5L	000015		00000000000000000000		RESERVED	000107	00000000000000000000
INSTALLATION WORD 6	IN6L	000016		00000000000000000000		RESERVED	PFNL 000110	0
INSTALLATION WORD 7	IN7L	000017		00000000000000000000		TOTAL PF SYS INTERLOCK		0
	CMRL	000020		0000000000000000	G	PF ACTIVITY COUNT		00
CMR SIZE/100				0760		RESERVED		0000000000
SYSTEM LABEL		000021		23312324051555	SYSTEM	DEFAULT FAM EQUIP NUM		13
				0000		ALTERNATE FAMILY COUNT		01
LIBDECK NUMBER				0		RESERVED		0
RECOVERY MODE				0		WORD INTERLOCK		1
JOB SEQ NUMBER COUNTER	JSNL	000022		0000000000	ACX0	SECONDS TILL LABEL CHECK	000111	0007
				01033017		SECONDS TILL 1CK CALL		0006
				00				000000000000
AVAILABLE USER ECS	AECL	000023		0000	XO	INHIBIT ERROR LOGGING	SCRL 000112	0
				00000000		EMERGENCY STEP SET		0
AVAILABLE MEMORY	ACML			3033		RESERVED		0000000000
JOB SCHEDULER	MSCL	000024		0000	A EVQ	CM SECDED ERRORS		0000
CPU RECALL DELAY				0000		LCME SECDED ERRORS		0000
PP/AUTO RECALL DELAY				0001		BITS 59-0 CHAN 16 S/C	S16L 000113	33134220000000000000
JOB ACTIVITY DELAY				7605		BITS 119-60	000114	00000000600100040113
JOB SWITCH DELAY				2621		BITS 179-120	000115	0000000000001600000
INTERNAL *MTR* FLAG	ECRL	000025		0000		RESERVED	000116	000000000000
FIRST TRACK FOR USERS				0000		BITS 203-180		00000000
NUMBER OF USER 1K BLOCKS				0000		BITS 59-0 CHAN 36 S/C	S36L 000117	40301000000000000000
				0000		BITS 119-60	000120	00000000600100000113

RA = LC.  
0000000 CM

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0

79/10/30. 10.59.40.

PAGE 2

NOS 1-8J03T/R2B.

NOS 1.4 STUDY DUMP - DSDI SAMPLE.

ECS RA/1000B FOR CP 0 0000  
 ECS FL/1000B FOR CP 0 0000  
 JULIAN DATE JDAL 000026 00000000004244353544 79229  
 PDL 000027 00000000 IHQPW3

YEAR - BIASED BY 1970 11  
 MONTH 10  
 DAY 21  
 HOURS 20  
 MINUTES 27  
 SECONDS 36

TIME OF DAY (DSD) TIML 000030 55344157353657363357 16.23.30.  
 DATE (DSD) DTEL 000031 55424450334350344257 79/08/17.  
 SYSTEM TITLE LINE 000032 55513640525503310205 (35) CYBE  
 000033 22553442375523501655 R 174 S/N  
 000034 41353355031423105700 620 CLSH.  
 000035 00000000000000000000

SYSTEM VERSION NAME 000036 16172355344643123336 NOS 1-8J03  
 000037 24502235025700000000 T/R2B.  
 JSCL 000040 0000000000000000 A

SCHEDULER REQUEST FLAG 0  
 SCHEDULER CYC INTERVAL 0001  
 SCHEDULER ACTIVE FLAG 000041 0 HD1

SCHEDULER RECALL TIME 00100434  
 CPU1 MULTIPLIER INDEX IPRL 000042 00 A BCC  
 CPU2 MULTIPLIER INDEX 00

ASSUMED KEYPUNCH MODE 0000  
 0  
 00  
 1  
 0002  
 03  
 03

ASSUMED CHAR SET CONV 0  
 ASSUMED CONV MODE 1  
 ASSUMED NT TAPE DENSITY 0002  
 TRACK TYPE/MT DENSITY 03

DISABLE USER ECS, PF/MS VAL SSSL 000043 01 A JMI J  
 IGNORE/DISABLE ACCOUNT 0  
 DISABLE SUB-SYSTS/REMOV DEV 12  
 DISABLE Q PROT/SEC USER/SCP 2  
 DISABLE TAF/NAM/RBF 7  
 DISABLE SUB-CP, MCS, CDCS 3  
 40000

DISABLE SIMULATED SCR 1  
 ENGR/LOCK/DEBUG STATUS 2  
 0000

TELEX CONTROL POINT SSSL 000044 0001 A S R B  
 EXPORT/IMPORT 0000  
 BATCHIO 0023  
 MAGNET 0022  
 TAF 0002  
 STIMULATOR 000045 0000 C U  
 NIP 0003  
 RBF 0021  
 CDCS 0000  
 MCS 0000

MASS STORAGE CONTROL (MSM) 000046 0000  
 TRANSACTION STIMULATOR 0000  
 RESERVED FOR CDC 0000

BITS 179-120 000121 0000000000000200000 P  
 RESERVED 000122 000000000000 H H  
 BITS 203-180 10000010  
 MACHINE IDENTIFICATION MMFL 000123 4135 62  
 RESERVED 00  
 LINK DEVICE EQ 00  
 FLAG REG RECOVERY INTERLOCK 0  
 RESERVED 0  
 INITIALIZED EQ COUNT 00  
 MACHINES STATUS 0000  
 MACHINE INDEX 0000  
 RESERVED 000124 00000000000000000000  
 RESERVED EFRL 000126 00000000000000000000  
 FLAG REGISTER IMAGE 000000  
 RESERVED INWL 000127 00000000000000000000  
 DISABLE FLAGS 0  
 000

FATAL ERROR/SUBSYS ABORT 0  
 RESERVED SD0L 000130 00000000 A F  
 \*MXN\* TIME - MICS. 5601  
 WORST CASE MTR CYCLE 0006  
 CURRENT MTR CYCLE TIME 0000  
 COUNT OF ECS MOVES SD1L 000131 0000000000 UPR  
 COUNT OF CM MOVES 0000252022  
 JOBS ROLLED SD2L 000132 00165675 N, 2KNP  
 SECTORS ROLLED 000035131620  
 RESERVED SD3L 000133 0000 B2  
 ROLLOUTS DUE TO USER LIMIT 00000235  
 TIME SLICE ROLLOUTS 00007062  
 RESERVED SD4L 000134 0000000000 HS  
 PP PRIORITY EXCHANGE 0000001023  
 RESERVED 000135 00000000000000000000  
 000136 0000000000000000000000  
 000137 0000000000000000000000  
 000140 0000000000000000000000  
 000141 0000000000000000000000  
 000142 0000000000000000000000  
 000143 0000000000000000000000  
 000144 0000000000000000000000  
 000145 0000000000000000000000  
 000146 0000000000000000000000  
 000147 0000000000000000000000  
 000150 0000000000000000000000  
 000151 0000000000000000000000  
 000152 0000000000000000000000  
 000153 0000000000000000000000  
 000154 0000000000000000000000  
 000155 0000000000000000000000  
 000156 0000000000000000000000  
 000157 0000000000000000000000  
 000160 0000000000000000000000  
 000161 0000000000000000000000  
 000162 0000000000000000000000  
 000163 0000000000000000000000  
 000164 0000000000000000000000  
 000165 0000000000000000000000  
 000166 0000000000000000000000

DSD - 1DS PARAMETER BLOCK



RA - SC.  
0000000 SCR

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0

79/10/30. 10.59.41.

PAGE 4

NOS 1-8J03T/R28.

NOS 1.4 STUDY DUMP - DSDI SAMPLE.

STATUS/CONTROL REGISTER 0 (CHANNEL 16)

BITS 203 - 144 0003 0000 0000 0000 0000  
BITS 143 - 72 0160 0000 0000 0000 0001 0000  
BITS 71 - 00 1216 3313 4220 0000 0000 0000

STATUS/CONTROL REGISTER 1 (CHANNEL 36)

BITS 203 - 144 1000 0010 0000 0000 0000  
BITS 143 - 72 0020 0000 0000 0000 0000 0000  
BITS 71 - 00 0001 4030 1000 0000 0000 0000



RA = XP.  
0000000 CPR

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0 79/10/30. 10.59.41. PAGE 5  
NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - DSDI SAMPLE.

CPU0 HARDWARE REGISTERS - ON

P	42126	A0	0	B0	0
RA	0	A1	60	B1	1
FL	777700	A2	45777	B2	45776
EM	70070000	A3	45777	B3	44574
RAE	0	A4	46001	B4	0
FLE	0	A5	44575	B5	0
MA	0	A6	60	B6	45776
	0	A7	41757	B7	0

X0	0000	0000	0000	0004	5776	D.
X1	0000	0000	0000	0000	0000	
X2	0000	0000	0000	0004	4574	D.
X3	0000	0000	0000	0004	5776	D.
X4	0400	0000	0000	0000	0000	D
X5	0000	0000	0000	0000	0000	
X6	0000	0000	0000	0004	5776	D.
X7	0000	0000	0000	0004	5776	D.

CPU1 HARDWARE REGISTERS - ON

P	2075	A0	20000	B0	0
RA	377700	A1	1503	B1	15
FL	20000	A2	1515	B2	5
EM	70000000	A3	1531	B3	17777
RAE	0	A4	0	B4	3441
FLE	0	A5	2172	B5	1
MA	1600	A6	3440	B6	0
	0	A7	1516	B7	6

X0	0000	0000	0000	0000	0001	A
X1	0000	0000	0000	0000	0000	
X2	0000	0000	0000	0000	0000	
X3	0000	0000	0000	0000	0000	
X4	0000	0000	0000	0000	0000	
X5	0000	0000	0000	0000	0000	
X6	0000	0000	0000	0000	0000	
X7	0000	0000	0000	0000	0100	A

JOB CONTROL AREA BY ORIGIN TYPE

SYOT

INITIAL QUEUE PRIORITY INQT 035670 7757 .G X A  
 LOWER BOUND 0700  
 UPPER BOUND 3000  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY ROOT 035671 6000 A H A  
 LOWER BOUND 0100  
 UPPER BOUND 1000  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY OTQT 035672 0400 D A A  
 LOWER BOUND 0100  
 UPPER BOUND 7700  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035673 0001 AA P  
 CPU TIME SLICE - MS\*64 0100  
 CM TIME SLICE - SEC 0020  
 00000000  
 MAX NUMBER JOBS/USERS 035674 7777  
 MAX FL FOR ANY JOB 7777  
 MAX FL FOR JOBS 7777  
 MAXIMUM ECS ANY JOB 7777  
 MAXIMUM ECS ALL JOBS 7777  
 LIMIT FOR SIZE OF DAF PFCT 035675 0  
 LIMIT FOR NUMBER OF PF 0  
 LIMIT CUMM SIZE IAPF 0  
 LIMIT FOR SIZE OF IAPF 0  
 RESERVED 0000000000000000  
 SYSTEM EVENT TAG ETB 035676 000000000000000000

HCOT

INITIAL QUEUE PRIORITY INQT 035700 2400 T P 5H A  
 LOWER BOUND 2000  
 UPPER BOUND 4010  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY ROOT 035701 2400 T HH5D A  
 LOWER BOUND 1010  
 UPPER BOUND 4004  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY OTQT 035702 0200 B A A  
 LOWER BOUND 0100  
 UPPER BOUND 7000  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035703 0030 XD B  
 CPU TIME SLICE - MS\*64 0400  
 CM TIME SLICE - SEC 0200  
 00000000  
 MAX NUMBER JOBS/USERS 035704 7777  
 MAX FL FOR ANY JOB 7777  
 MAX FL FOR JOBS 7777  
 MAXIMUM ECS ANY JOB 7777  
 MAXIMUM ECS ALL JOBS 7777  
 LIMIT FOR SIZE OF DAF PFCT 035705 0  
 LIMIT FOR NUMBER OF PF 0  
 LIMIT CUMM SIZE IAPF 0  
 LIMIT FOR SIZE OF IAPF 0  
 RESERVED 0000000000000000  
 SYSTEM EVENT TAG ETB 035706 000000000000000000

EIOT

INITIAL QUEUE PRIORITY INQT 035710 3400 I T 5H A  
 LOWER BOUND 2400  
 UPPER BOUND 4010  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY ROOT 035711 3400 I L 5F A  
 LOWER BOUND 1400  
 UPPER BOUND 4006  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY OTQT 035712 0200 B A A  
 LOWER BOUND 0100  
 UPPER BOUND 7600  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035713 0030 XD B  
 CPU TIME SLICE - MS\*64 0400  
 CM TIME SLICE - SEC 0200  
 00000000  
 MAX NUMBER JOBS/USERS 035714 7777  
 MAX FL FOR ANY JOB 7777  
 MAX FL FOR JOBS 7777  
 MAXIMUM ECS ANY JOB 7777  
 MAXIMUM ECS ALL JOBS 7777  
 LIMIT FOR SIZE OF DAF PFCT 035715 0  
 LIMIT FOR NUMBER OF PF 0  
 LIMIT CUMM SIZE IAPF 0  
 LIMIT FOR SIZE OF IAPF 0  
 RESERVED 0000000000000000  
 SYSTEM EVENT TAG ETB 035716 000000000000000000

RA = JC.  
0000000 CM

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0

79/10/30. 10.59.41.

PAGE 7

NOS 1-8J03T/R2B.

NOS 1.4 STUDY DUMP - DSDI SAMPLE.

TXOT

INITIAL QUEUE PRIORITY INQT 035720 4000 5 4 F A  
LOWER BOUND 3770  
UPPER BOUND 7006  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY ROOT 035721 4004 5D45 A  
LOWER BOUND 3740  
UPPER BOUND 7000  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY OTOT 035722 0200 B A A  
LOWER BOUND 0100  
UPPER BOUND 7000  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035723 0030 X 5 H  
CPU TIME SLICE - MS\*64 0040  
CM TIME SLICE - SEC 0010  
00000000  
MAX NUMBER JOBS/USERS 035724 7777  
MAX FL FOR ANY JOB 7777  
MAX FL FOR JOBS 7777  
MAXIMUM ECS ANY JOB 7777  
MAXIMUM ECS ALL JOBS 7777  
LIMIT FOR SIZE OF DAF PFCT 035725 0  
LIMIT FOR NUMBER OF PF 0  
LIMIT CUMM SIZE IAPF 0  
LIMIT FOR SIZE OF IAPF 0  
RESERVED 0000000000000000  
SYSTEM EVENT TAG ETB 035726 000000000000000000

MTOT

INITIAL QUEUE PRIORITY INQT 035730 6774 A  
LOWER BOUND 6700  
UPPER BOUND 7400  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY ROOT 035731 6774 5 A  
LOWER BOUND 4000  
UPPER BOUND 7400  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY OTOT 035732 6000 A A  
LOWER BOUND 0100  
UPPER BOUND 7700  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035733 0031 YD  
CPU TIME SLICE - MS\*64 0400  
CM TIME SLICE - SEC 0060  
00000000  
MAX NUMBER JOBS/USERS 035734 7777  
MAX FL FOR ANY JOB 7777  
MAX FL FOR JOBS 7777  
MAXIMUM ECS ANY JOB 7777  
MAXIMUM ECS ALL JOBS 7777  
LIMIT FOR SIZE OF DAF PFCT 035735 0  
LIMIT FOR NUMBER OF PF 0  
LIMIT CUMM SIZE IAPF 0  
LIMIT FOR SIZE OF IAPF 0  
RESERVED 0000000000000000  
SYSTEM EVENT TAG ETB 035736 000000000000000000

2400 - CONTROL POINT 12

CP12 EXCHANGE PACKAGE

P	11336	A0	2252	B0	0	(A0)=0000	0000	0000	0002	4042	B57	(B0)=0000	0000	0000	0000	0000		
RA	432600	A1	1	B1	1	(A1)=0000	0000	0000	0000	5601	,A	(B1)=0000	0000	0000	0000	5601		,A
FL	55700	A2	65	B2	777765	(A2)=4000	0000	0000	0004	1614	5	DNL	(B2)=0000	0000	0000	0000	0000	
EM	70070000	A3	13044	B3	0	(A3)=0000	0016	2503	1405	2523	NUCLEUS	(B3)=0000	0000	0000	0000	0000		
RAE	0	A4	114	B4	2	(A4)=0100	0000	0003	5104	3403	A	CIDIC	(B4)=1116	2025	2400	0000	4610	INPUT -H
FILE	0	A5	2452	B5	450	(A5)=1075	5376	5051	7003	0454	H \$ /I CD=	(B5)=0100	0000	0000	0255	6503	5732	A B C.Z
MA	2400	A6	1	B6	26072	(A6)=0000	0000	0000	0000	5601	,A	(B6)=0000	0000	0000	0000	0000	5771	.
	0	A7	12706	B7	777001	(A7)=0000	0351	0003	5204	3403	CI CIDIC	(B7)=0000	0000	0000	0000	0000		

X0	0000	0000	0000	0000	0000	(X0)=0000	0000	0000	0000	0000								
X1	0000	0000	0000	0000	0000	(X1)=0000	0000	0000	0000	0000								
X2	0207	0620	0000	0000	0000	BGFP	(X2)=0000	0000	0000	0000	0000							
X3	0000	0016	2503	1405	2523	NUCLEUS	(X3)=0000	0000	0000	0000	0000							
X4	0100	0000	0003	5104	3403	A	CIDIC	(X4)=0667	0433	7646	0004	6000	F	DO	-	D		
X5	0000	0000	0000	0000	0000		(X5)=0000	0000	0000	0000	0000							
X6	1404	2120	0000	0001	2703	LDQP	AWC	(X6)=0104	3533	0730	0000	0002	AD20GX		B			
X7	0000	0351	0003	5204	3403	CI	CIDIC	(X7)=0667	0433	7646	0004	6000	F	DO	-	D		

PARAMETER SUMMARY

JOB NAME	ALMY024	CPU STATUS	I
USER NUMBER	AD2000	SENSE SWITCHES	00
PRIMARY FILE		KCL R1	000000
ORIGIN TYPE	TXOT	KCL R2	000000
TIME USED	1122727	KCL R3	000000
TIME REMAINING	6701550	KCL EF	04
QUEUE PRIORITY	7000	CPU PRIORITY	030

MESSAGE 1 - AD20GX,9,C.  
 MESSAGE 2 -

CURRENT CONTROL STATEMENT - \_AD20GX,9,C.

LAST DAYFILE MESSAGE - 16.22.36.AD20GX,9,C.

SPECIAL ENTRY POINTS -

CONTROL POINT AREA

CPU STATUS/AUTO RECALL	STSW 002420	1	HA	BVE.	JOB SEQUENCE NUMBER	RFCW 002474	01022207	ABRG
CPU SUB-CP ACTIVE		0			CONTROL STATEMENT ADDRESS		000000	
NUMBER PPS ASSIGNED		01			DEM FILE RANDOM INDEX		000000	
ERROR FLAGS		0000			RESERVED	ALMW 002475	0000	2-
ACTIVITY COUNT		0000			MAX MAGNETIC TAPES		3	
RA/100		4326		0557	MAX REMOVABLE PACKS		2	
FL/100					MAX DEFER BATCH JOBS		4	
JOB NAME	JNMW 002421	01141531333537	ALMY024C		MAX LOCAL WORK FILES		6	
JOB ORIGIN CODE					MAX TIME LIMIT		77	
OPER ASSIGNED EQUIP	DAEW				MAX SRU LIMIT		77	
CPU PRIORITY	JCIW 002422	0030	X		MAX FIELD LENGTH		76	
QUEUE PRIORITY		7000			MAX ECS FIELD LENGTH		00	



CP ACCUMULATOR		0000000220			002526 00000000000000000000
CHARGE PROCESSED	FPPW 002461 6		T, EB		002527 00000000000000000000
RESERVED		000			002530 01043533073056445603 AD20GX,9,C
SRU VALIDATION LIMIT		7777		CONTROL STATEMENT BFR CSBW	002531 57000000000000000000 .
FNT ORD PROFILE FILE		0024			002532 00000000000000000000
LEVEL-3 BLOCK TRACK		5674			002533 00000000000000000000
LEVEL-3 BLOCK SECTOR		0502			002534 00000000000000000000
MAX FL FOR JOB STEP	FLCW 002462 3737		44 44		002535 00000000000000000000
INITIAL FL FOR JOB STEP		0000			002536 00000000000000000000
MAXIMUM FL FOR ENTIRE JOB		3737			002537 00000000000000000000
ROLLIN FL		0000			002540 22052425221656230322 RETURN,SCR
FL INCREASE REQUEST		0000			002541 57000000000000000000 .
JOB STEP MAX ECS FL	ELCW 002463 0000				002542 05162125112205561216 ENQUIRE, JN
LAST CARD ECS FL		0000			002543 57000000000000000000 .
JOB MAX ECS FL		0000			002544 22171414172524563633 ROLLOUT,30
ROLLIN ECS FL		0000			002545 57000000000000000000 .
ECS FL INCREASE REQ		0000			002546 07172417560301241411 GOTO,CATLI
ROLLOUT ALLOWABLE	SSCW 002464 0000				002547 23245700000000000000 ST.
CONNECTION/WAIT RESPONSES		000000000000000000			002550 22052605222457030314 REVERT.CCL
TXUT SUBSYSTEM	TXSW 002465 05		E 61G		002551 55555555555555550000
LIST OF FILES ADDRESS	LOFW	000000			002552 05301124570303140000 EXIT.CCL
INTERRUPT ADR/PREV ERR	TIAW	411107			002553 22052605222456010217 REVERT,ABD
OUTPUT POINTER	TIOW	000000			002554 22245703031455550000 RT.CCL
AUXILIARY PACKNAME	PFCW 002466 00000000000000		K 9		002555 00000000000000000000
EST OF FAMILY DEVICE		13			002556 00000000000000000000
LIMIT FOR SIZE OF DAF		6			002557 00000000000000000000
LIMIT FOR NUMBER OF PF		0			002560 00000000000000000000
LIMIT CUMM SIZE IAPF		4			002561 00000000000000000000
LIMIT FOR SIZE OF IAPF		4			002562 00000000000000000000
USER NUMBER	UIDW 002467 01043533333300		AD2000 V		002563 00000000000000000000
USER INDEX		002663			002564 00000000000000000000
NO EXIT AND RPV FLAGS	EECW 002470 00		A CG		002565 00000000000000000000
		00			002566 00000000000000000000
REPRIEVE DATA		0001			002567 00000000000000000000
TERMINAL INPUT POINTER	TINW	000000			002570 00000000000000000000
REPRIEVE DATA		030764			002571 00000000000000000000
INPUT FILE FST	TFSW 002471 6101		A		002572 00000000000000000000
PRIMARY FILE FST		0000			002573 00000000000000000000
RESERVED		00			002574 00000000000000000000
EVENT DESCRIPTOR	TERM	000000			002575 00000000000000000000
ROLLOUT TIME PERIOD		0000			002576 00000000000000000000
RESERVED	CSPW 002472 0000		5 AAZAZ		002577 00000000000000000000
EUR FLAG/CS COUNT		40000001			
NEXT STATEMENT INDEX		0132			
LIMIT INDEX		0132			
INPUT/SKIP FLAGS	CSSW 002473 0				
		0			
EQUIPMENT NUMBER		00			
FIRST TRACK		0000			
CURRENT TRACK		0000			
CURRLNT SECTOR		0000			
FIRST/SECOND HALF FLAG		0000			

DAYFILE POINTERS AND BUFFER  
 0005664 0003 7050 0052 0100 0000 C / JA  
 0005665 0002 4152 4152 0021 0000 B616) Q

```

0037050 55344157353457364457 22052425221656230322 57000000000000000000 55344157353457364457 16.21.39.RETURN,SCR. 16.21.39.
0037054 05162125112205561216 57000000000000000000 55344157353457364457 22171414172524563633 ENQUIRE,JN. 16.21.39.ROLLOUT,30
0037060 57000000000000000000 55344157353557334457 07172417560301241411 23245700000000000000 . 16.22.09.GOTO,CATLIST.
0037064 55344157353557334457 03012414112324561417 54065614542303225700 00000000000000000000 16.22.09.CATLIST,LO=F,L=SCR.
0037070 55344157353557343357 55030124141123245503 17152014052405570000 55344157353557343357 16.22.10. CATLIST COMPLETE. 16.22.10.
0037074 30050411245623032256 16105601235777145001 04353355503477740214 50010435330730507730 XEDIT,SCR,NH,AS. L/AD20 /1 BL/AD20GX/ X
0037100 00000000000000000000 55344157353557343357 21000000000000000000 55344157353557343357 16.22.10.Q 16.22.11.
0037104 22052425221656230322 57000000000000000000 55344157353557343457 05162125112205561216 RETURN,SCR. 16.22.11.ENQUIRE,JN
0037110 57000000000000000000 55344157353557343457 22171414172524563633 57000000000000000000 . 16.22.11.ROLLOUT,30.
0037114 55344157353557363457 53012424010310560104 35330730570000000000 55344157353557364157 16.22.31.$ATTACH,AD20GX. 16.22.36.
0037120 01043533073056445603 57000000000000000000 57000000000000000000 55344157353457334157 AD20GX,9,C. 16.21.06.
0037124 22171414172524563633 57000000000000000000 55344157353457364157 07172417560301241411 ROLLOUT,30. 16.21.36.GOTO,CATLI
0037130 23245700000000000000 55344157353457364157 03012414112324561417 54065614542303225700 ST. 16.21.36.CATLIST,LO=F,L=SCR.
0037134 00000000000000000000 55344157353457364257 55030124141123245503 17152014052405570000 16.21.37. CATLIST COMPLETE.
0037140 55344157353457364257 30050411245623032256 16105601235777145001 0435335503477740214 16.21.37.XEDIT,SCR,NH,AS. L/AD20 /1 BL
0037144 50010435330730507730 00000000000000000000 55344157353457364257 21000000000000000000 /AD20GX/ X 16.21.37.Q
  
```

DAYFILE LINES IN BUFFER

```

16.21.39.RETURN,SCR.
16.21.39.ENQUIRE,JN.
16.21.39.ROLLOUT,30.
16.22.09.GOTO,CATLIST.
16.22.09.CATLIST,LO=F,L=SCR.
16.22.10. CATLIST COMPLETE.
16.22.10.XEDIT,SCR,NH,AS. L/AD20 /1 BL/AD20GX/ X
16.22.10.Q
16.22.11.RETURN,SCR.
16.22.11.ENQUIRE,JN.
16.22.11.ROLLOUT,30.
16.22.31.$ATTACH,AD20GX.
16.22.36.AD20GX,9,C.
  
```

ATTACHED FILES

```

0030 INPUT* IN FNT - 6100 1116 2025 2447 0001 0012 INPUT* A J EST - 5720 0000 0000 0000 2204 1003 RDHC
    FST - 6101 0000 0000 0000 0000 0005 E
0060 INPUT LO FNT - 6160 1116 2025 2400 0000 1512 INPUT MJ EST - 6015 2000 0000 0102 2424 0000 P ABTT
    FST - 6161 0075 0000 0000 0000 0401 DA
0061 OUTPUT LO FNT - 6162 1725 2420 2524 0000 1512 UUTPUT MJ EST - 6015 2000 0000 0102 2424 0000 P ABTT
    FST - 6163 0075 0000 0000 0000 0401 DA
0062 ZZZZZC2 LO FNT - 6164 3232 3232 3203 3500 1512 ZZZZZC2 MJ EST - 5725 4200 2120 0000 0411 1250 7 QP DIJ/
    FST - 6165 7105 5222 5222 0002 0307 EJRJR BCG
    TRACK CHAIN -
    5222 0002
0063 GRU01A LO FNT - 6166 0722 2533 3401 0000 1512 GRU01A MJ EST - 5722 6200 0705 0000 0421 1074 GE DQH
    FST - 6167 0002 4140 4140 0001 0305 B6565 ACE
    TRACK CHAIN -
    4140 0011
0064 DAY LO FNT - 6170 0401 3100 0000 0000 1512 DAY MJ EST - 5722 6200 0705 0000 0421 1074 GE DQH
    FST - 6171 0002 4163 4163 0001 0305 B6 6 ACE
  
```

ID	Code	Type	FNT	FST	TRACK CHAIN	MJ	EST	Other
0070	GRU01	LO	6200 0722 2533 3400 0000 1512	GRU01	MJ	EST - 5724	4200 2021 0000 0411 1163 7 PQ	DII
			5240 0011 0305 DJ515	ICE				
0071	GRU1	LO	6202 0722 2534 0000 0000 1512	GRU1	MJ	EST - 5722	6200 0705 0000 0421 1074	GE DQH
			6203 0002 4211 4211 0010 0305	B7171	HCE			
0073	L	LO	6206 1400 0000 0000 0000 1512	L	MJ	EST - 5722	6200 0705 0000 0421 1074	GE DQH
			6207 0002 4142 4142 0176 0707	B6767A	GG			
0075	LGD	LO	6212 1407 1700 0000 0000 1512	LGD	MJ	EST - 5725	4200 2120 0000 0411 1250 7 QP	DIJ/
			6213 0005 5221 5221 0001 0505	EJQ10	AEE			
0143	F	LO	6326 0600 0000 0000 0000 1512	F	MJ	EST - 5722	6200 0705 0000 0421 1074	GE DQH
			6327 0002 4176 4176 0002 0315	B6 6	BCM			
0156	PROCFIL	LO	6354 2022 1703 0611 1400 1512	PROCFIL	MJ	EST - 5721	6200 0705 0000 0421 1005	GE DQHE
			6355 0001 4241 4241 0021 0415	A7676	QDM			
0160	C	LO	6360 0300 0000 0000 0000 1512	C	MJ	EST - 5725	4200 2120 0000 0411 1250 7 QP	DIJ/
			6361 0005 5252 5252 0002 0305	E1111	BCE			
0161	TAPE3	PM	6362 2401 2005 3600 0000 1212	TAPE3	JJ	EST - 5727	4200 2422 0000 0411 1422 7 TR	DILR
			6363 0007 5702 5365 0042 0301	G.B1	7CA			
0163	GRULIB	LO	6366 0722 2514 1102 0000 1512	GRULIB	MJ	EST - 5725	4200 2120 0000 0411 1250 7 QP	DIJ/
			6367 0005 5204 5204 0013 0411	EJ010	KDI			
0165	NEW	LO	6372 1605 2700 0000 0000 1512	NEW	MJ	EST - 5721	6200 0705 0000 0421 1005	GE DQHE
			6373 0001 4174 4174 0001 0505	A6 6	AEE			
0166	XED	LO	6374 3005 0400 0000 0000 1512	XED	MJ	EST - 5725	4200 2120 0000 0411 1250 7 QP	DIJ/
			6375 0005 5260 5260 0001 0005	E) )	A E			



RA = CP,12/XTAFP.  
0000000 CM

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0

79/10/30. 10.59.46.

PAGE 13

NOS 1-8J03T/R28.

NOS 1.4 STUDY DUMP - DSDI SAMPLE.

0167 JOBGX LD FNT - 6376 1217 0207 3000 0000 1512 JOBGX MJ EST - 5722 6200 0705 0000 0421 1074 GE DQH  
FST - 6377 0002 4214 4214 0003 0315 B7L7L CCM  
TRACK CHAIN -  
4214 0003

0171 AD20GX PM FNT - 6402 0104 3533 0730 0001 1212 AD20GX AJJ EST - 5727 4200 2422 0000 0411 1422 7 TR DILR  
FST - 6403 0007 6137 6137 0156 0004 G 4 4A, D  
TRACK CHAIN -  
6137 6140 6141 6142 6143 6144 6145 6146 6147 6150 6151 6152 6153 6154 6155 6156 6157 6160 6161 6162 6163 6164  
6165 6166 6167 6170 6171 6172 6173 6174 6175 6176 6177 6200 6201 6202 6203 0266

ANALYSIS OF PP26

PP26	LDQ	1404 2152 0000 0001 2703	LDQ)	AWC	LAST MAIN PROGRAM LOADED - LDQ
	DSWM	0033 0100 0002 0001 0024	OA	B A T	LAST OVERLAY LOADED - LDQ
	CP12	0024 0003 6123 0342 0005	T C	SC7 E	LAST MASS STORAGE DRIVER - 60I
		0002 0044 0427 0012 0021	B	90W J Q	
		0000 0000 0000 0000 0000			
		0000 0000 0000 0000 0000			
		0000 0000 0000 0000 0000			
		0000 0000 1110 2120 2736		IHQPW3	

RESIDENT ENTRY POINTS			LOW CORE CONSTANTS			
NAME	LOC	CALLER	NAME	LOC	ACTUAL	EXPECTED
FTN	0336	1015	RA	55	4322	4326 *** WARNING ***
RCH	0377	0376	FL	56	0547	0557 *** WARNING ***
DCH	0406	0405	DN	70	0001	0001
DFM	0442	1567	HN	71	0100	0100
EXR	0476	1126	TH	72	1000	1000
SMS	0513	1703	TR	73	0003	0003
RDS	0560	1462	CP	74	2400	2400
WDS	0563	2473	IA	75	5600	5600
EMS	0566	1245	OA	76	5601	5601
	0000	0003	MA	77	5602	5602

PPU MEMORY

0000	0003	2020	3541	----	0300	----	6123	0342	CPP26	C	SC7	0010	0033	0100	0002	0001	0024	1073	0157	0302	OA	B	A	TH	A	CB		
0020	0007	6137	6137	0156	0004	3700	7707	----	G	4	4A,	D4	G	0030	0314	3335	----	0003	0157	0002	5672	----	CL02	CA.	B,			
0040	0104	3533	0730	----	0002	0003	0157	2001	AD20GX	B	CA.PA	0050	1404	2152	----	0001	2703	4322	0547	6403	LDQ)	A	WC8RE*	C				
0060	----	----	----	7776	7651	0001	3224	0001		(	AZT	A	0070	0001	0100	1000	0003	2400	5600	5601	5602	AA	H	CT,	,A,B			
0100	0005	----	----	----	0002	----	0501	0411	E	B	EADI	0110	0011	2000	1710	0576	3075	6050	3051	1340	IP	ONE	X	/X(K5				
0120	1006	3474	3574	3374	3350	0463	1006	0200	HF1	2	O	O/D	HFB	0130	0157	0115	0005	3077	6050	1701	6010	1701	A	.	AM	EX	/OA	HJA
0140	6250	3050	1071	5400	0260	0326	3311	1014	/X/H	=	B	CV0IHL	0150	3112	6113	1073	1400	0200	0336	0100	0131	YJ	KH	L	B	C3A	AY	
0160	5400	0261	3413	1063	0446	5400	0260	3412	=	B	IKH	D--	B	IJ	0170	1461	0200	0336	3014	0502	3015	3415	5400	L	B	C3XLE	BXMIM-	
0200	0152	3011	1377	0542	3015	1702	3403	3076	AIXIK	E7XM0B1CX	0210	6004	0200	0513	1440	5500	0110	4003	3416	DB	EKL5	AH5C1N						
0220	5003	0001	3417	3003	0200	0560	0727	3607	/C	A10XCB	E	GW3G	0230	5300	0106	0504	3407	4003	3406	3016	4403	\$	AFEDIG5C1FXN9C					
0240	3017	5403	0001	2000	0500	3503	5715	0003	XO=C	AP	E	2C.M	C	0250	0545	0200	0566	0100	0153	2000	2725	0304	E+B	E	A	A&P	WUCD	
0260	0014	0421	3071	2342	0420	3401	1452	6173	LDQX	S7DPIAL)	0270	7762	0004	3224	----	----	1006	0616	2000	DZT	HFFNP							
0300	1701	0576	3010	1277	0334	1457	6010	3010	DAE	XHJ	CIL.	HXXH	0310	3374	0512	1411	0325	2000	1720	0676	3076	O	EJLICUP	OPF	X			
0320	6010	3010	0552	3074	1620	6010	3013	3455	HXHE)X	NP	HXX1	0330	3014	3456	3076	6010	1400	0100	1015	0445	XLI,X	HL	A	HMD*				
0340	3410	3076	6210	1435	3210	0646	2004	6402	LHX	HL2ZHF	-PD	B	0350	6010	3010	3111	0572	2004	6374	6370	0271	HXHYIE	PD	B				
0360	2004	6374	2610	6010	3014	0457	1740	0676	PD	VH	HXL0.	05F	0370	1505	3500	0665	1477	6210	0356	0100	0376	ME2	F	L	HC,A	C		
0400	3411	1412	0200	0336	0371	0100	0405	3411	LILJB	C3C	A	DEII	0410	1404	0200	0336	0371	2004	1450	6173	7763	LDB	C3C	PDL/				
0420	2000	0006	3411	1406	0200	0336	3011	0564	P	F11LFB	C3XIE	0430	4002	0520	3014	0403	6313	2073	1400	0200	5BEPXLDC	KP	L	B				
0440	0336	0100	1567	3402	5400	0435	1063	5400	C3A	M	IB=	D2H	=	0450	0421	3076	3401	1410	3400	4002	4400	0402	DOX	I	ALHI	589	DB	
0460	3602	3600	1115	0571	3601	6210	3277	3412	3B3	IME	3A	HZ	IJ	0470	1703	0403	3014	0557	0100	0420	1126	0200	UCDCXLE.	A	DPIVB			
0500	0157	5000	0476	5415	0006	0115	0007	1466	A./	D	=	M	FAM	GL	0510	6170	0100	0100	1703	2000	5720	3105	6010	A	A	QCP	.PYE	H
0520	3014	1003	1606	6170	0102	5000	0110	1340	XLHCNF	AB/	AHK5	0530	0556	5000	0104	5200	0107	0420	5500	0107	E,/	AD)	AGDP	AG				
0540	3413	1441	3412	1461	0200	0336	3011	1014	IKL61JL	B	C3XIHL	0550	3112	6113	0556	0340	1377	0100	1056	0100	YJ	KE,C5K	A	H,A				
0560	1462	0314	0100	2473	0334	0100	1245	1400	L	CLA	T	CIA	J+L	0570	3413	4471	0200	0766	0370	5400	0613	4771	IK9	B	G	C	=	FK*
0600	0705	3107	5300	0631	0403	0200	0671	1404	GEYG&	FYDCB	F	LD	0610	0200	0753	7124	6776	0532	5000	0560	0335	B	G&	T	EZ/	E	C2	
0620	5400	0645	1063	5400	0640	4771	0705	3107	=	F+&	=	F&	GEYG	0630	2300	0500	0403	0200	0671	4071	0403	2000	S	E	DCB	F	5	DCP
0640	----	1135	0200	0753	7324	6776	0516	5000	I2B	G&	T	EN/	0650	0563	6624	0651	7564	5400	0670	1412	0200	E	TF(	=	F	LJB		
0660	0753	1401	7124	0013	0525	3013	0524	0100	G&LA	T	KEUXKETA	0670	0607	0607	3076	6010	3010	0574	3077	6204	FGFGX	HXHE	X	D				
0700	1472	0200	0336	3714	4471	3107	5400	0631	L	B	C34L9	YG-	FY	0710	0304	0331	5400	0104	0200	0766	3012	0412	CDCY-	ADB	G	XJDJ		









EQUIPMENT 06 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 013350 3140	Y5 FX+ A	ALLOCATION FLAGS	DILL 013363 0000	0
RESERVED	0000		CH 2 ACCESS 7154 FLAG	61	
LENGTH OF TRT	0630		CH 1 ACCESS 7154 FLAG	60	
FIRST AVAIL TRACK PTR	4572		CH 4 ACCESS 7154 FLAG	00	
NUM AVAILABLE TRACKS	0163		CH 3 ACCESS 7154 FLAG	00	
FLAGS / INTERLOCK	ACGL 013351 0000	D2 A	BIT 21 IS MAINTENANCE MODE	0	
DA ECS CHAIN FIRST TRACK	0000		MEMORY TYPE - 3 BIT VALUE	0	
DIRECT ACCESS FILE CNT	0435		CPU TYPE - 3 BIT VALUE	0	
FIRST TRACK IQFT	0000		PP PATH TYPE - 3 BIT VALUE	0	
REDEFINITION STATUSES	01		RESERVED	00	
PF UTILITY INTERLOCK	00		ALGORITHM INDEX	04	
ECS ADDRESS MST/TRT	SDGL 013352 00000000		DAYFILE TRACK	DULL 013364 0000	
ECS UPDATE COUNT	0000000000		ACCOUNT FILE TRACK	0000	
MACHINE MASK INTERLOCK	00		ERRLOG TRACK	0000	
FIRST TRACK IAPP	ALGL 013353 4042	575 58 5	SYSTEM TABLE TRACK	0000	
LABEL TRACK	4000		FAMILY IDLE STATUS	0	
FIRST TRACK PERMITS	4043		FAMILY ACTIVITY COUNT	000	
NUMBER CATALOG TRACKS	0040		LOCAL STATUS FLAGS	STLL 013365 0000	62 B I
FIRST TRACK DAT	0000		RESERVED	00	
FAMILY OR PACK NAME	PFGL 013354 16172303142310	NOSCLSH5 A	ERROR STATUS	00	
DEVICE NUMBER	40		MACHINE ID	4135	
RESERVED	00		CURRENT USER COUNT DAF	0002	
REL UNIT MULTIUNIT DEV	0		NEXT EQUIPMENT	00	
NUM UNIT MULTIUNIT DEV	1		ORIGINAL NUMBER UNITS	1	
USER NUM PRIVATE PACK	PUGL 013355 0000000000000000	-A5	LOCAL STATUS	1	
DEVICE MASKS	460140		REDEF IN PROG/NULL EQ	DDLL 013366 0	A 3V
FLAGS AND DAT INDEX	MDGL 013356 1000	H A DI C5	RESERVED	0	
FT-HT FLAG /* SECTOR LIMIT	0160		NUMBER PHYSICAL UNITS - 1	01	
DRIVER NAME	0411		EQUIPMENT UNIT LIST	00000000000003626	
0 RESERVED FOR PPR USE	0000		LOCAL INSTAL AREA	ISLL 013367 00000000000000000000	
SECTOR LIMIT	0340				
RESERVED	RIGL 013357 000000000000000000000000				
GLOBAL INSTAL AREA	ISGL 013360 000000000000000000000000				
	I2GL 013361 000000000000000000000000				
ACTIVITY COUNT	DALL 013362 0000	67			
UNIT INTERLOCKS	0000				
CURRENT POSITION	4142				
NEXT BEST POSITION	7777				
RESERVED	0000				

TRACK RESERVATION TABLE

013370 +0000	4001 4002 4003 4004 4017	1----	1111	5A5B5C5D50
013371 +0004	4005 4006 4007 4010 0017	-----	1111	5E5F5G5H 0
013372 +0010	4011 4012 4013 4014 0017	-----	1111	5I5J5K5L 0
013373 +0014	4015 4016 4017 4020 0017	-----	1111	5M5N5O5P 0
013374 +0020	4021 4022 4023 4024 0017	-----	1111	5Q5R5S5T 0
013375 +0024	4025 4026 4027 4030 0017	-----	1111	5U5V5W5X 0
013376 +0030	4031 4032 4033 4034 0017	-----	1111	5Y5Z5051 0
013377 +0034	4035 4036 4037 4040 0017	-----	1111	52535455 0
013400 +0040	4041 0000 4146 0151 1417	--11----	1111	56 6-A(LO
013401 +0044	0064 0064 0125 4050 7417	1111----	1111	AU5/ 0
013402 +0050	4051 0106 4053 4054 1017	--1----	1111	5(AF515-HO
013403 +0054	4055 4056 4057 4060 0017	-----	1111	5 5,5.5 0

013404	+0060	4061	4062	4063	4064	0017	----	----	1111	5	5	5	5	0
013405	+0064	4065	4066	4067	4070	0017	----	----	1111	5	5	5	5	0
013406	+0070	4071	4072	4073	4074	0017	----	----	1111	5	5	5	5	0
013407	+0074	4075	4076	4077	4100	0017	----	----	1111	5	5	5	6	0
013410	+0100	4101	4102	4103	4104	0017	----	----	1111	6A6B6C6D	0			
013411	+0104	4105	4106	4107	4110	0017	----	----	1111	6E6F6G6H	0			
013412	+0110	4112	3777	4113	4114	0017	----	----	1111	6J4	6K6L	0		
013413	+0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P	0			
013414	+0120	4121	4122	4123	4124	0017	----	----	1111	6Q6R6S6T	0			
013415	+0124	0100	4126	0124	0147	2417	-1-1	----	1111	A	6VATA*TO			
013416	+0130	0312	0017	0274	4134	7417	1111	----	1111	CJ	OB	61	0	
013417	+0134	4135	4136	4137	0216	0017	----	----	1111	6263648N	0			
013420	+0140	0243	3777	0046	0233	5417	1-11	----	1111	884	-80-0			
013421	+0144	0001	0001	4150	0001	6417	11-1	----	1111	A	A6/	A	0	
013422	+0150	4251	4152	0031	0044	2417	-1-1	----	1111	7(6)	Y	9TO		
013423	+0154	0001	4156	4157	4160	6017	11--	----	1111	A6,6.6	0			
013424	+0160	4161	4162	4163	4164	0017	----	----	1111	6	6	6	6	0
013425	+0164	4165	4166	4167	4170	0017	----	----	1111	6	6	6	6	0
013426	+0170	4171	4172	4173	4174	0017	----	----	1111	6	6	6	6	0
013427	+0174	0137	4176	0000	4200	2417	-1-1	----	1111	A46	7	TO		
013430	+0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D	0			
013431	+0204	4205	4206	4207	4210	0017	----	----	1111	7E7F7G7H	0			
013432	+0210	4211	4212	4213	4214	0017	----	----	1111	7I7J7K7L	0			
013433	+0214	4215	4216	0137	4220	0417	----	1	1111	7M7NA47PDD				
013434	+0220	4221	4222	4223	0007	0017	----	----	1111	7Q7R7S	G	0		
013435	+0224	4225	4226	4227	4230	4017	1---	----	1111	7U7V7W7X50				
013436	+0230	0323	4232	4233	4234	2017	-1--	----	1111	CS7Z7071PD				
013437	+0234	4235	4236	4237	4240	0017	----	----	1111	72737475	0			
013440	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879	0			
013441	+0244	4245	4246	4247	4250	0017	----	----	1111	7+7-7*7/	0			
013442	+0250	0137	4252	4253	4254	0017	----	----	1111	A471757-	0			
013443	+0254	4255	4256	4257	4260	0017	----	----	1111	7	7,7.7	0		
013444	+0260	4261	4262	4263	4264	0017	----	----	1111	7	7	7	7	0
013445	+0264	4265	4266	4274	0031	0417	----	1	1111	7	7	7	YDD	
013446	+0270	4271	0125	0073	0216	5417	1-11	----	1111	7	AU	BN=0		
013447	+0274	4275	4276	4277	4343	0017	----	----	1111	7	7	7	88	0
013450	+0300	0131	0022	0105	0200	7417	1111	----	1111	AY	RAEB	0		
013451	+0304	4305	4306	0267	4310	4417	1--1	----	1111	8E8F8	8H9D			
013452	+0310	4311	4312	4313	0247	0017	----	----	1111	8I8J8K8+	0			
013453	+0314	4315	4316	4317	4320	4017	1---	----	1111	8M8N8O8P50				
013454	+0320	4321	4322	4323	4324	0017	----	----	1111	8Q8R8S8T	0			
013455	+0324	4325	0024	4327	4330	1017	--1-	----	1111	8U	T8W8X8D			
013456	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081	0			
013457	+0334	4335	4336	4337	0101	0017	----	----	1111	828384AA	0			
013460	+0340	4341	4342	0213	4344	4017	1---	----	1111	86878K8950				
013461	+0344	4400	4346	4347	4350	2017	-1--	----	1111	9	8-8*8/PO			
013462	+0350	0014	0203	0316	0012	3417	-111	----	1111	L	BCCN	J10		
013463	+0354	0133	4356	4357	4360	6017	11--	----	1111	A08,8.8	0			
013464	+0360	4361	4362	4363	4364	0017	----	----	1111	8	8	8	8	0
013465	+0364	4365	4366	4367	4370	0017	----	----	1111	8	8	8	8	0
013466	+0370	0022	0054	4373	4374	3017	-11-	----	1111	R	=8	8	XD	
013467	+0374	4375	4376	0245	0035	0417	----	1	1111	8	8	B+	200	
013470	+0400	4410	0036	4403	4404	3017	-11-	----	1111	9H	39C9DXD			
013471	+0404	4405	4406	4407	0313	0017	----	----	1111	9E9F9GCK	0			
013472	+0410	4411	5033	0001	4414	1417	--11	----	1111	9I/O	A9LLO			
013473	+0414	0262	0173	0311	0133	3417	-111	----	1111	B	A	CIA010		
013474	+0420	0146	0146	4423	4424	7017	111-	----	1111	A-A-9S9T	0			



013475 +0424 4425 4426 0006 0234 0417 ----1 ---- 1111 9U9V FB1D0  
 013476 +0430 0073 0235 0005 0145 7417 1111 ---- 1111 B2 EA+ 0  
 013477 +0434 0134 0152 0307 0300 7417 1111 ---- 1111 A1A)CGC 0  
 013500 +0440 4605 0104 0072 0004 7417 1111 ---- 1111 -EAD D 0  
 013501 +0444 0161 0052 0154 0026 7417 1111 ---- 1111 A JA= V 0  
 013502 +0450 0241 0142 4453 0154 7017 111- ---- 1111 B6A79SA= 0  
 013503 +0454 0235 0312 0002 0064 7417 1111 ---- 1111 B2CJ B 0  
 013504 +0460 4461 4462 4463 4464 4017 1--- ---- 1111 9 9 9 9 50  
 013505 +0464 0152 0312 0136 4470 3417 -111 ---- 1111 A)CJA39 10  
 013506 +0470 4471 4472 4473 4474 0017 ---- ---- 1111 9 9 9 9 0  
 013507 +0474 4475 4476 4477 4500 0017 ---- ---- 1111 9 9 9 + 0  
 013510 +0500 0010 4502 4503 4504 2017 -1-- ---- 1111 H+B+C+DPO  
 013511 +0504 4505 4506 4507 4510 0017 ---- ---- 1111 +E+F+G+H 0  
 013512 +0510 4511 4512 4513 4514 0017 ---- ---- 1111 +I+J+K+L 0  
 013513 +0514 4515 4516 4517 4520 0017 ---- ---- 1111 +M+N+O+P 0  
 013514 +0520 4521 4522 4523 4524 0017 ---- ---- 1111 +Q+R+S+T 0  
 013515 +0524 4525 4526 4527 4530 0017 ---- ---- 1111 +U+V+W+X 0  
 013516 +0530 4531 4532 4533 4534 0017 ---- ---- 1111 +Y+Z+0+1 0  
 013517 +0534 4535 4536 4537 4540 0017 ---- ---- 1111 +2+3+4+5 0  
 013520 +0540 4541 4542 4543 4544 0017 ---- ---- 1111 +6+7+8+9 0  
 013521 +0544 4545 4546 4547 4550 0017 ---- ---- 1111 +--+\*\*+/ 0  
 013522 +0550 4551 4552 4553 4554 0017 ---- ---- 1111 +(+)+\$+= 0  
 013523 +0554 4555 4556 4557 4560 0017 ---- ---- 1111 + +,+.+ 0  
 013524 +0560 4561 4562 4563 4564 0017 ---- ---- 1111 + + + + 0  
 013525 +0564 4565 4566 4567 4570 0017 ---- ---- 1111 + + + + 0  
 013526 +0570 4571 4572 4573 4574 0017 ---- ---- 1111 + + + + 0  
 013527 +0574 4575 4576 4577 4600 0017 ---- ---- 1111 + + + - 0  
 013530 +0600 4601 0043 6641 0213 1417 --11 ---- 1111 -A 8 6BKLO  
 013531 +0604 0034 4606 4607 4610 0017 ---- ---- 1111 1-F-G-H 0  
 013532 +0610 4611 4612 4613 4614 0017 ---- ---- 1111 -I-J-K-L 0  
 013533 +0614 6175 6636 0305 0054 1417 --11 ---- 1111 3CE =LO  
 013534 +0620 0027 0066 0141 0123 7417 1111 ---- 1111 W A6AS 0  
 013535 +0624 0064 4626 4627 0022 6017 11-- ---- 1111 -V-W R 0  
 013536 +0630 0142 0032 0146 4634 7417 1111 ---- 1111 A7 ZA--1 0  
 013537 +0634 4635 4636 4637 4640 0017 ---- ---- 1111 -2-3-4-5 0  
 013540 +0640 4641 0236 4643 4644 1017 --1- ---- 1111 -6B3-8-9HU  
 013541 +0644 0153 4646 4647 4650 2017 -1-- ---- 1111 A\$---\*/PU  
 013542 +0650 0135 4652 4654 3777 2017 -1-- ---- 1111 A2-)=-4 PO  
 013543 +0654 4655 4656 4657 4660 0017 ---- ---- 1111 - -,-- 0  
 013544 +0660 4661 4662 4663 4664 0017 ---- ---- 1111 - - - - 0  
 013545 +0664 4665 4666 4667 4670 0017 ---- ---- 1111 - - - - 0  
 013546 +0670 4671 4672 4673 4674 0017 ---- ---- 1111 - - - - 0  
 013547 +0674 4675 4676 4677 4700 0017 ---- ---- 1111 - - - \* 0  
 013550 +0700 4701 4702 4703 4704 0017 ---- ---- 1111 \*A\*B\*C\*D 0  
 013551 +0704 4705 4706 4707 4710 0017 ---- ---- 1111 \*E\*F\*G\*H 0  
 013552 +0710 4711 4712 4713 4714 0017 ---- ---- 1111 \*I\*J\*K\*L 0  
 013553 +0714 4715 4716 4717 4720 0017 ---- ---- 1111 \*M\*N+O+P 0  
 013554 +0720 4721 4722 4723 4724 0017 ---- ---- 1111 \*Q\*R\*S+T 0  
 013555 +0724 4725 4726 4727 4730 0017 ---- ---- 1111 \*U+V+W+X 0  
 013556 +0730 4731 4732 4733 4734 0017 ---- ---- 1111 \*Y+Z\*0+1 0  
 013557 +0734 4735 4736 4737 4740 0017 ---- ---- 1111 \*2\*3\*4+5 0  
 013560 +0740 4741 4742 4743 4744 0017 ---- ---- 1111 \*6\*7\*8+9 0  
 013561 +0744 4745 4746 4747 4750 0017 ---- ---- 1111 \*\*+-\*\*\*/ 0  
 013562 +0750 4751 4752 4753 4754 0017 ---- ---- 1111 \*(+)+\$+= 0  
 013563 +0754 4755 4756 4757 4760 0017 ---- ---- 1111 \* \*,. \* 0  
 013564 +0760 4761 4762 4763 4764 0017 ---- ---- 1111 \* \* \* \* 0  
 013565 +0764 4765 4766 4767 4770 0017 ---- ---- 1111 \* \* \* \* 0

013566	+0770	4771	4772	4773	4774	0017	----	----	1111	* * * * 0
013567	+0774	4775	4776	4777	5000	0017	----	----	1111	* * * / 0
013570	+1000	5001	5002	5003	5004	0017	----	----	1111	/A/B/C/D 0
013571	+1004	5005	5006	5007	5010	0017	----	----	1111	/E/F/G/H 0
013572	+1010	5011	5012	5013	5014	0017	----	----	1111	/I/J/K/L 0
013573	+1014	5015	5016	5017	5020	0017	----	----	1111	/M/N/O/P 0
013574	+1020	5021	5022	5023	5024	0017	----	----	1111	/Q/R/S/T 0
013575	+1024	5025	0101	0227	0045	1417	--11	----	1111	/UAABW +LO
013576	+1030	5031	5032	0005	5161	4017	1----	----	1111	/Y/Z E( 50
013577	+1034	0063	5036	5037	5040	6017	11--	----	1111	/3/4/5 0
013600	+1040	5041	5042	0055	5044	0417	----	----	1111	/6/7 /900
013601	+1044	5045	5046	5047	5050	0017	----	----	1111	/+/-/*// 0
013602	+1050	5051	5052	5053	5054	0017	----	----	1111	/1/1/1/= 0
013603	+1054	0154	5056	5057	5060	2017	-1--	----	1111	A=//./ PO
013604	+1060	5061	5062	5063	0132	0017	----	----	1111	/ / / AZ 0
013605	+1064	5065	5066	5067	5070	4017	1----	----	1111	/ / / / 50
013606	+1070	5071	5072	0322	0226	0417	----	----	1111	/ / CRBV00
013607	+1074	5075	0022	5077	5100	5017	1-1-	----	1111	/ R/ ( /0
013610	+1100	5101	5102	5103	5104	0017	----	----	1111	(A(B(C(D 0
013611	+1104	0017	5106	5107	5110	2017	-1--	----	1111	O(F(G(H(P
013612	+1110	5111	5112	0326	0011	0417	----	----	1111	(I(JCV IDO
013613	+1114	0036	0006	5117	0150	7017	111-	----	1111	3 F(OA/ 0
013614	+1120	5121	5122	5123	5124	4017	1----	----	1111	(Q(R(S(T50
013615	+1124	5125	0053	5127	5130	1017	--1-	----	1111	(U \$(W(XHO
013616	+1130	5131	5132	5133	5134	0017	----	----	1111	(Y(Z(O(1 0
013617	+1134	5135	5136	5137	5140	0017	----	----	1111	(2(3(4(5 0
013620	+1140	5141	5142	5143	5144	0017	----	----	1111	(6(7(8(9 0
013621	+1144	5145	5146	5147	5150	0017	----	----	1111	(+(-(*(/ 0
013622	+1150	5151	5152	5153	5154	0017	----	----	1111	((()(\$(- 0
013623	+1154	5155	5156	5157	5160	0017	----	----	1111	( (,(.( 0
013624	+1160	0201	5236	0023	0043	1417	--11	----	1111	BA)3 S 8LO
013625	+1164	0054	0024	0073	0036	7417	1111	----	1111	= T 3 0
013626	+1170	5171	0001	0003	0007	5417	1-11	----	1111	( A C G=0
013627	+1174	0014	5176	0237	0201	6417	11-1	----	1111	L( B4BA 0
013630	+1200	0002	5202	0270	0066	6417	11-1	----	1111	B)BB 0
013631	+1204	0143	5206	5207	5210	6017	11--	----	1111	A8)F)G)H 0
013632	+1210	5211	5212	0324	5214	0417	----	----	1111	)I)JCT)LOO
013633	+1214	5215	5216	5217	0031	0017	----	----	1111	)M)N)O Y 0
013634	+1220	5222	3777	5223	5224	4017	1----	----	1111	JR4 )S)T50
013635	+1224	5225	5226	0316	5230	0417	----	----	1111	)U)V(CN)XOO
013636	+1230	0107	0244	0317	0022	3417	-111	----	1111	AGB9CD RLO
013637	+1234	5235	0230	5552	5240	4417	1--1	----	1111	)2BX )3590
013640	+1240	5241	5242	5243	5244	0017	----	----	1111	)6)7)8)9 0
013641	+1244	5245	5246	0251	5250	0417	----	----	1111	)*)-B(1)DO
013642	+1250	5251	5252	5253	0070	0017	----	----	1111	)()()) 0
013643	+1254	5255	0203	5257	5260	5017	1-1-	----	1111	) BC.) /0
013644	+1260	0203	5262	5263	5264	2017	-1--	----	1111	BC) ) ) PO
013645	+1264	5265	5266	5267	0044	0017	----	----	1111	) ) ) 9 0
013646	+1270	0026	5272	5273	5274	6017	11--	----	1111	V) ) ) 0
013647	+1274	0021	5276	5277	5300	2017	-1--	----	1111	Q) ) \$ PO
013650	+1300	0022	5302	5303	5304	2017	-1--	----	1111	R)S)C)DPO
013651	+1304	0262	5306	5307	5310	2017	-1--	----	1111	B \$F)G)HPO
013652	+1310	0022	5312	5313	5314	2017	-1--	----	1111	R)S)K)LPO
013653	+1314	0262	5316	5317	5320	2017	-1--	----	1111	B \$N)O)PPO
013654	+1320	5321	5322	5323	5324	0017	----	----	1111	\$Q)R)S)T 0
013655	+1324	5325	5326	5327	5330	0017	----	----	1111	\$U)V)W)X 0
013656	+1330	5331	5332	5333	5334	0017	----	----	1111	\$Y)Z)()() 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
 0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

SDSI - V2.0 79/10/30. 10.59.49. PAGE 5  
 NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

013657	+1334	5335	5336	5337	5340	0017	----	----	1111	\$2\$3\$4\$5 0
013660	+1340	5341	5342	5343	5344	0017	----	----	1111	\$6\$7\$8\$9 0
013661	+1344	5345	5346	5347	5350	0017	----	----	1111	\$+\$-\$*\$/ 0
013662	+1350	5351	5352	5353	5354	0017	----	----	1111	\$(\$)\$\$\$= 0
013663	+1354	5355	5356	5357	5360	0017	----	----	1111	\$ \$, \$, \$ 0
013664	+1360	5361	5362	5363	0030	0017	----	----	1111	\$ \$ \$ X 0
013665	+1364	0051	5366	0014	5370	6417	11-1	----	1111	(\$ L \$ 0
013666	+1370	5371	5372	5373	5374	0017	----	----	1111	\$ \$ \$ \$ 0
013667	+1374	5375	5376	5377	5400	0017	----	----	1111	\$ \$ \$ = 0
013670	+1400	5401	5402	5403	5404	0017	----	----	1111	=A=B=C=D 0
013671	+1404	5405	5406	5407	5410	0017	----	----	1111	=E=F=G=H 0
013672	+1410	5411	5412	5413	5414	0017	----	----	1111	=I=J=K=L 0
013673	+1414	5415	5416	5417	5420	0017	----	----	1111	=M=N=O=P 0
013674	+1420	5421	5422	5423	5424	0017	----	----	1111	=Q=R=S=T 0
013675	+1424	5425	5426	5427	5430	0017	----	----	1111	=U=V=W=X 0
013676	+1430	5431	5432	5433	5434	0017	----	----	1111	=Y=Z=0=1 0
013677	+1434	5435	5437	3777	5440	0017	----	----	1111	=2=44 =5 0
013700	+1440	5441	5442	5443	5444	0017	----	----	1111	=6=7=8=9 0
013701	+1444	5445	5446	5447	5450	0017	----	----	1111	=+==+\$/ 0
013702	+1450	5451	5452	5453	5454	0017	----	----	1111	=(=)-\$= 0
013703	+1454	5455	5456	5457	5460	0017	----	----	1111	= , , = 0
013704	+1460	5461	5462	5463	5464	0017	----	----	1111	= = = = 0
013705	+1464	5465	5466	5467	5470	0017	----	----	1111	= = = = 0
013706	+1470	5471	5472	5473	5474	0017	----	----	1111	= = = = 0
013707	+1474	5475	5476	5477	5500	0017	----	----	1111	= = = = 0
013710	+1500	5501	5502	5503	5504	0017	----	----	1111	A B C D 0
013711	+1504	5505	5506	5507	5510	0017	----	----	1111	E F G H 0
013712	+1510	5511	5512	5513	5514	0017	----	----	1111	I J K L 0
013713	+1514	5515	5516	5517	5520	0017	----	----	1111	M N O P 0
013714	+1520	5521	5522	5523	5524	0017	----	----	1111	Q R S T 0
013715	+1524	5525	5526	5527	5530	0017	----	----	1111	U V W X 0
013716	+1530	5531	5532	5533	5534	0017	----	----	1111	Y Z 0 1 0
013717	+1534	5535	5536	5537	5540	0017	----	----	1111	2 3 4 5 0
013720	+1540	5541	5542	5543	5544	0017	----	----	1111	6 7 8 9 0
013721	+1544	5545	5546	5547	5550	0017	----	----	1111	+ - * / 0
013722	+1550	5551	0031	5553	5554	0017	----	----	1111	( Y \$ = 0
013723	+1554	5555	5556	5557	5563	0017	----	----	1111	, . 0
013724	+1560	5561	5562	0100	5567	4017	1----	----	1111	A 50
013725	+1564	0027	0026	0110	5570	7017	111-	----	1111	W VAH 0
013726	+1570	5665	5572	5573	5574	2017	-1--	----	1111	, PO
013727	+1574	5575	5576	5577	5600	0017	----	----	1111	, 0
013730	+1600	5601	5602	5603	5604	0017	----	----	1111	,A,B,C,D 0
013731	+1604	5605	5606	5607	5610	0017	----	----	1111	,E,F,G,H 0
013732	+1610	5611	5612	5613	5614	0017	----	----	1111	,I,J,K,L 0
013733	+1614	5615	5616	5617	5620	0017	----	----	1111	,M,N,O,P 0
013734	+1620	5621	5622	5623	5624	0017	----	----	1111	,Q,R,S,T 0
013735	+1624	5625	0220	5627	5630	1017	--1-	----	1111	,UBP,W,XHO
013736	+1630	5631	5632	5633	5634	0017	----	----	1111	,Y,Z,0,1 0
013737	+1634	5635	5636	5637	5640	0017	----	----	1111	,2,3,4,5 0
013740	+1640	5641	5642	5643	5644	0017	----	----	1111	,6,7,8,9 0
013741	+1644	5645	5646	5647	5650	0017	----	----	1111	,+,-,*,/ 0
013742	+1650	5651	5652	5653	5654	0017	----	----	1111	,(\$),\$,= 0
013743	+1654	5655	5656	5657	5660	0017	----	----	1111	, , , , , 0
013744	+1660	5661	5662	0220	0111	0417	----1	----	1111	, , BPAIDO
013745	+1664	0252	5702	5667	5670	5017	1-1-	----	1111	B).B, , /0
013746	+1670	5671	5672	0023	5674	0417	----1	----	1111	, , S, DO
013747	+1674	0241	0155	5677	5700	3017	-11-	----	1111	B6A , . XO

013750	+1700	5701	0101	5711	0003	0417	----	1111	.AAA.I CDD
013751	+1704	0122	0227	0071	0117	7417	1111	----	1111 ARBW AD O
013752	+1710	0002	6067	5713	5714	5017	1-1-	----	1111 B .K.L/O
013753	+1714	5715	5716	5717	5720	0017	----	1111	.M.N.O.P O
013754	+1720	5721	5722	5723	5724	0017	----	1111	.Q.R.S.T O
013755	+1724	5725	5726	5727	5730	0017	----	1111	.U.V.W.X O
013756	+1730	5731	5733	3777	5734	0017	----	1111	.Y.O4 .1 O
013757	+1734	5735	5736	5737	6746	0017	----	1111	.2.3.4 - O
013760	+1740	5741	5742	5743	5744	4017	1---	----	1111 .6.7.8.95O
013761	+1744	5745	5747	3777	5750	0017	----	1111	.+.4 . / O
013762	+1750	5751	5753	3777	5754	0017	----	1111	.(.4 . = O
013763	+1754	0243	0160	0101	0201	3417	-111	----	1111 88A AABA1O
013764	+1760	5761	0312	5763	5764	5017	1-1-	----	1111 . CJ. . /O
013765	+1764	5765	5766	5767	5770	0017	----	1111	. . . . O
013766	+1770	5771	5772	5773	5774	0017	----	1111	. . . . O
013767	+1774	5775	5776	5777	6000	0017	----	1111	. . . . O
013770	+2000	6001	6002	6003	6004	0017	----	1111	A B C D O
013771	+2004	6005	6006	6007	6010	0017	----	1111	E F G H O
013772	+2010	6011	6012	6013	6014	0017	----	1111	I J K L O
013773	+2014	6015	6016	6017	6020	0017	----	1111	M N O P O
013774	+2020	6021	6022	6023	6024	0017	----	1111	Q R S T O
013775	+2024	6025	6026	0230	6030	0417	----	1111	U VBX XDO
013776	+2030	6031	6032	6033	6034	0017	----	1111	Y Z O 1 O
013777	+2034	6035	6036	6037	6040	0017	----	1111	2 3 4 5 O
014000	+2040	6041	6042	6043	6044	0017	----	1111	6 7 8 9 O
014001	+2044	6045	6046	6047	6050	0017	----	1111	+ - * / O
014002	+2050	6051	6052	6053	6054	0017	----	1111	( ) \$ = O
014003	+2054	6055	6056	6057	6060	0017	----	1111	. . . . O
014004	+2060	6061	6062	6063	6064	0017	----	1111	. . . . O
014005	+2064	0035	0210	0152	6156	3017	-11-	----	1111 28HA) ,XO
014006	+2070	6071	6072	6073	6074	4017	1---	----	1111 5O
014007	+2074	6075	6076	6077	6100	0017	----	1111	. . . . O
014010	+2100	6101	6102	6103	6104	0017	----	1111	A B C D O
014011	+2104	6105	6106	6107	0170	0017	----	1111	E F GA O
014012	+2110	0005	0004	6113	0271	7017	111-	----	1111 E D KB O
014013	+2114	0012	0021	0014	0113	7417	1111	----	1111 J O LAK O
014014	+2120	0005	0004	6123	0030	7017	111-	----	1111 E D S X O
014015	+2124	0252	6126	6127	6130	6017	11--	----	1111 8) V W X O
014016	+2130	6131	6132	0057	0336	0417	----	1111	Y Z .C3DO
014017	+2134	0333	6136	6137	0307	6017	11--	----	1111 CO 3 4CG O
014020	+2140	0040	0062	0272	0270	7417	1111	----	1111 5 B B O
014021	+2144	0061	6146	0032	0232	6417	11-1	----	1111 - 2BZ O
014022	+2150	0232	0061	0255	0062	7417	1111	----	1111 8Z B O
014023	+2154	0261	0253	6157	6213	6017	11--	----	1111 B B\$ . K O
014024	+2160	0030	6162	0241	0243	6417	11-1	----	1111 X 86BB O
014025	+2164	6165	6166	6167	6170	4017	1---	----	1111 5O
014026	+2170	0243	6172	6173	0010	2017	-1--	----	1111 88 HPU
014027	+2174	4604	6576	6177	0245	5017	1-1-	----	1111 -D B+/O
014030	+2200	6201	0256	6203	0141	5017	1-1-	----	1111 AB, CA6/O
014031	+2204	6205	0257	6207	0137	5017	1-1-	----	1111 EB. GA4/O
014032	+2210	0063	6212	0067	6214	6017	11--	----	1111 J L O
014033	+2214	6230	6216	0206	6220	2417	-1-1	----	1111 X NBF PTO
014034	+2220	0261	0026	0001	0046	3417	-111	----	1111 B V A -1O
014035	+2224	6225	0257	0104	0112	5417	1-11	----	1111 UB.ADAJ-O
014036	+2230	6231	6241	6233	0131	1017	--1-	----	1111 Y 6 OAYHO
014037	+2234	0142	3777	0200	0147	5417	1-11	----	1111 A74 B A#-O
014040	+2240	0146	6242	6243	6557	4017	1---	----	1111 A- 7 B .5O

014041	+2244	6245	6246	6247	6250	4017	1---	----	1111	+ - * / 50
014042	+2250	6251	6252	6253	6254	0017	----	----	1111	( ) \$ = 0
014043	+2254	6255	6256	6257	6260	0017	----	----	1111	, . 0
014044	+2260	6261	6262	6263	6264	0017	----	----	1111	0
014045	+2264	6265	6266	6267	6270	0017	----	----	1111	0
014046	+2270	6272	3777	6273	6274	0017	----	----	1111	4 0
014047	+2274	6275	6276	6277	6300	0017	----	----	1111	0
014050	+2300	6301	6302	6303	6304	0017	----	----	1111	A B C D 0
014051	+2304	6305	6306	6307	6310	0017	----	----	1111	E F G H 0
014052	+2310	6311	6312	6313	6314	0017	----	----	1111	I J K L 0
014053	+2314	6315	6316	6317	6320	0017	----	----	1111	M N O P 0
014054	+2320	6321	6322	6323	6324	0017	----	----	1111	Q R S T 0
014055	+2324	6325	6326	6327	6330	0017	----	----	1111	U V W X 0
014056	+2330	6331	6332	6333	6334	0017	----	----	1111	Y Z 0 1 0
014057	+2334	6335	6336	6337	6340	0017	----	----	1111	2 3 4 5 0
014060	+2340	6341	6342	6343	6344	0017	----	----	1111	6 7 8 9 0
014061	+2344	6345	6346	6347	6350	0017	----	----	1111	+ - * / 0
014062	+2350	6351	6352	6353	6354	0017	----	----	1111	( ) \$ = 0
014063	+2354	6355	6356	6357	6360	0017	----	----	1111	, . 0
014064	+2360	6361	6362	6363	6364	0017	----	----	1111	0
014065	+2364	6365	6366	6367	6370	0017	----	----	1111	0
014066	+2370	6371	6372	6373	6374	0017	----	----	1111	0
014067	+2374	6375	6376	6377	6400	0017	----	----	1111	0
014070	+2400	6401	6402	6403	6404	0017	----	----	1111	A B C D 0
014071	+2404	6405	6406	6407	6410	0017	----	----	1111	E F G H 0
014072	+2410	6411	6412	6413	6414	0017	----	----	1111	I J K L 0
014073	+2414	6415	6416	6417	6420	0017	----	----	1111	M N O P 0
014074	+2420	6421	6422	6423	6424	0017	----	----	1111	Q R S T 0
014075	+2424	6425	6426	6427	6430	0017	----	----	1111	U V W X 0
014076	+2430	6431	6432	6433	6434	0017	----	----	1111	Y Z 0 1 0
014077	+2434	6435	6436	6437	6440	0017	----	----	1111	2 3 4 5 0
014100	+2440	6441	6442	6443	6444	0017	----	----	1111	6 7 8 9 0
014101	+2444	6445	6446	6447	6450	0017	----	----	1111	+ - * / 0
014102	+2450	6451	6452	6453	6454	0017	----	----	1111	( ) \$ = 0
014103	+2454	6455	6456	6457	6460	0017	----	----	1111	, . 0
014104	+2460	6461	6462	6463	6464	0017	----	----	1111	0
014105	+2464	6465	6466	6467	6470	0017	----	----	1111	0
014106	+2470	6471	6472	6473	6474	0017	----	----	1111	0
014107	+2474	6475	6476	6477	6500	0017	----	----	1111	0
014110	+2500	6501	6502	6503	6504	0017	----	----	1111	A B C D 0
014111	+2504	6505	6506	6507	6510	0017	----	----	1111	E F G H 0
014112	+2510	6511	6512	6513	6514	0017	----	----	1111	I J K L 0
014113	+2514	6515	0000	6517	0153	1017	--1-	----	1111	M OASHO
014114	+2520	0074	0003	0065	0030	7417	1111	----	1111	C X 0
014115	+2524	0004	6526	0113	0157	6417	11-1	----	1111	D VAKA. 0
014116	+2530	0103	3777	6533	6534	5017	1-1-	----	1111	AC4 O 1/0
014117	+2534	6535	6536	0172	6540	0417	----1	----	1111	2 3A 500
014120	+2540	0074	0213	0044	0122	3417	-111	----	1111	BK 9AR10
014121	+2544	0066	6546	0267	6550	6417	11-1	----	1111	-B / 0
014122	+2550	0237	6552	6553	0137	2017	-1--	----	1111	B4 ) \$A4PO
014123	+2554	0236	6556	0040	4615	6017	11--	----	1111	B3 , 5-M 0
014124	+2560	6561	6562	6563	6564	4017	1----	----	1111	50
014125	+2564	6565	6566	6567	6570	0017	----	----	1111	0
014126	+2570	0172	0235	0213	0232	3417	-111	----	1111	A B2BKAZ10
014127	+2574	0126	0052	6602	0031	6417	11-1	----	1111	AV ) B Y 0
014130	+2600	6601	0071	0046	0031	4417	1--1	----	1111	A - Y90
014131	+2604	0273	6606	6607	6610	6017	11--	----	1111	B F G H 0

014132	+2610	6611	6612	6613	6614	0017	----	----	1111	I J K L O
014133	+2614	6615	6616	6617	6620	0017	----	----	1111	M N O P O
014134	+2620	0046	6622	6623	6624	2017	-1--	----	1111	- R S TPO
014135	+2624	6625	6626	6627	6630	0017	----	----	1111	U V W X O
014136	+2630	6631	6632	6633	6634	0017	----	----	1111	Y Z O 1 O
014137	+2634	6635	0074	0265	0007	0417	----	1	1111	2 8 G00
014140	+2640	0020	6642	6643	6644	4017	1---	----	1111	P 7 8 950
014141	+2644	6645	6646	6647	6650	0017	----	----	1111	+ - + / O
014142	+2650	6653	3777	3777	6654	0017	----	----	1111	\$4 4 = O
014143	+2654	6655	6656	6657	6660	0017	----	----	1111	, . O
014144	+2660	6661	6662	6663	6664	0017	----	----	1111	O
014145	+2664	6665	6666	6667	6670	0017	----	----	1111	O
014146	+2670	6671	6672	6673	6674	0017	----	----	1111	O
014147	+2674	6675	6676	6677	6700	0017	----	----	1111	O
014150	+2700	6701	6702	6703	6704	0017	----	----	1111	A B C D O
014151	+2704	6705	6706	6707	6710	0017	----	----	1111	E F G H O
014152	+2710	6711	6712	6713	6714	0017	----	----	1111	I J K L O
014153	+2714	6715	6716	6717	6720	0017	----	----	1111	M N O P O
014154	+2720	6721	6722	6723	6724	0017	----	----	1111	Q R S T O
014155	+2724	6725	6726	6727	6730	0017	----	----	1111	U V W X O
014156	+2730	6731	6732	6733	6734	0017	----	----	1111	Y Z O 1 O
014157	+2734	6735	6736	6737	6740	0017	----	----	1111	2 3 4 5 O
014160	+2740	6741	6742	0320	0110	0417	----	1	1111	6 7CPAHDO
014161	+2744	6747	6751	0003	6750	6017	11--	----	1111	* I C / O
014162	+2750	0231	0277	0000	0000	0014	----	----	11--	BYB L
014163	+2754	0000	0000	0000	0000	0000	----	----	----	
-----										
014204	+3060	0000	3777	0000	0000	0004	----	----	-1--	4 D
014205	+3064	0000	0000	0000	0000	0000	----	----	----	
-----										
014210	+3100	0000	0000	3777	0000	0002	----	----	--1-	4 B
014211	+3104	0000	0000	0000	0000	0000	----	----	----	
-----										
014217	+3134	0000	3777	0000	0000	0004	----	----	-1--	4 D

EQUIPMENT 07 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 014220 3140	Y5 FX5+	ALLOCATION FLAGS	DILL 014233 0000	TR	A
RESERVED	0000		CH 2 ACCESS 7154 FLAG	24		
LENGTH OF TRT	0630		CH 1 ACCESS 7154 FLAG	22		
FIRST AVAIL TRACK PTR	4045		CH 4 ACCESS 7154 FLAG	00		
NUM AVAILABLE TRACKS	0067		CH 3 ACCESS 7154 FLAG	00		
FLAGS / INTERLOCK	ACGL 014221 0000	F, A	BIT 21 IS MAINTENANCE MODE	0		
DA ECS CHAIN FIRST TRACK	0000		MEMORY TYPE - 3 BIT VALUE	0		
DIRECT ACCESS FILE CNT	0656		CPU TYPE - 3 BIT VALUE	0		
FIRST TRACK IOFT	0000		PP PATH TYPE - 3 BIT VALUE	0		
REDEFINITION STATUSES	01		RESERVED	00		
PF UTILITY INTERLOCK	00		ALGORITHM INDEX	01		
ECS ADDRESS MST/TRT	SDGL 014222 00000000		DAYFILE TRACK	DULL 014234 0000		
ECS UPDATE COUNT	0000000000		ACCOUNT FILE TRACK	0000		
MACHINE MASK INTERLOCK	00		ERRLOG TRACK	0000		
FIRST TRACK IAPF	ALGL 014223 4042	575 58 5	SYSTEM TABLE TRACK	0000		
LABEL TRACK	4000		FAMILY IDLE STATUS	0		
FIRST TRACK PERMITS	4043		FAMILY ACTIVITY COUNT	000		
NUMBER CATALOG TRACKS	0040		LOCAL STATUS FLAGS	STLL 014235 0004		D 62 B Q
FIRST TRACK DAT	0000		RESERVED	00		
FAMILY OR PACK NAME	PFGL 014224 16172303142310	NUSCLSH6 B	ERROR STATUS	00		

DEVICE NUMBER 41  
 RESERVED 00  
 REL UNIT MULTIUNIT DEV 0  
 NUM UNIT MULTIUNIT DEV 2  
 USER NUM PRIVATE PACK PUGL 014225 00000000000000 55H  
 DEVICE MASKS 404010  
 FLAGS AND DAT INDEX MDGL 014226 1000 H 68DI EA  
 FT-HT FLAG \*/\* SECTOR LIMIT 4153  
 DRIVER NAME 0411  
 O RESERVED FOR PPR USE 0000  
 SECTOR LIMIT 0501  
 RESERVED R1GL 014227 00000000000000000000  
 GLOBAL INSTAL AREA ISGL 014230 00000000000000000000  
 I2GL 014231 0000000000000000000000  
 ACTIVITY COUNT DALL 014232 0001 AH 4  
 UNIT INTERLOCKS 1000  
 CURRENT POSITION 6137  
 NEXT BEST POSITION 7777  
 RESERVED 0000

MACHINE ID 4135  
 CURRENT USER COUNT DAF 0002  
 NEXT EQUIPMENT 00  
 ORIGINAL NUMBER UNITS 2  
 LOCAL STATUS 1  
 REDEF IN PROG/NULL EQ DDLL 014236 0 8 91T  
 RESERVED 0  
 NUMBER PHYSICAL UNITS - 1 02  
 EQUIPMENT UNIT LIST 0000000000443424  
 LOCAL INSTAL AREA ISLL 014237 00000000000000000000

TRACK RESERVATION TABLE

014240 +0000	4001	4002	4003	4004	4017	1---	----	1111	5A5B5C5D50
014241 +0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
014242 +0010	4011	4012	4013	4014	0017	----	----	1111	5I5J5K5L 0
014243 +0014	4015	4016	4017	4020	0017	----	----	1111	5M5N5O5P 0
014244 +0020	4021	4022	4023	4024	0017	----	----	1111	5Q5R5S5T 0
014245 +0024	4025	4026	4027	4030	0017	----	----	1111	5U5V5W5X 0
014246 +0030	4031	4032	4033	4034	0017	----	----	1111	5Y5Z5051 0
014247 +0034	4035	4036	4037	4040	0017	----	----	1111	52535455 0
014250 +0040	4041	0000	4350	0231	1417	--11	----	1111	56 8/BYLO
014251 +0044	0452	0054	0454	4050	7417	1111	----	1111	01 =D=5/ 0
014252 +0050	4051	4052	0413	0102	0417	---1	----	1111	5(5)DKABD0
014253 +0054	4055	4056	4057	4316	4017	1---	----	1111	5 5,5.8N50
014254 +0060	4230	0373	0144	4064	3417	-111	----	1111	7XC A95 10
014255 +0064	4065	4066	4067	4070	0017	----	----	1111	5 5 5 5 0
014256 +0070	4071	4072	4073	4074	0017	----	----	1111	5 5 5 5 0
014257 +0074	4075	4076	4077	4100	0017	----	----	1111	5 5 5 6 0
014260 +0100	4101	4102	4103	4104	0017	----	----	1111	6A6B6C6D 0
014261 +0104	4105	4106	4107	4110	0017	----	----	1111	6E6F6G6H 0
014262 +0110	4111	4112	4113	4114	0017	----	----	1111	6I6J6K6L 0
014263 +0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P 0
014264 +0120	4121	4122	4123	4124	0017	----	----	1111	6Q6R6S6T 0
014265 +0124	4125	4126	4127	4130	0017	----	----	1111	6U6V6W6X 0
014266 +0130	4131	4132	4133	4134	0017	----	----	1111	6Y6Z6061 0
014267 +0134	4135	4136	4137	4140	0017	----	----	1111	62636465 0
014270 +0140	4141	4142	4143	4144	0017	----	----	1111	66676869 0
014271 +0144	4145	4146	0021	4150	0017	----	----	1111	6+6- Q6/ 0
014272 +0150	4314	4060	4154	4152	2417	-1-1	----	1111	8L5 6=6)T0
014273 +0154	4155	0146	0142	0030	1417	--11	----	1111	6 A-A7 XLO
014274 +0160	0160	0013	0021	0013	3417	-111	----	1111	A K Q K10
014275 +0164	0022	4172	0013	0022	5417	1-11	----	1111	R6 K R=0
014276 +0170	0141	0412	4173	4175	6017	11--	----	1111	A6DJ6 6 0
014277 +0174	0142	4176	4177	4200	4017	1---	----	1111	A76 6 7 50
014300 +0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D 0
014301 +0204	4205	4206	4207	4210	0017	----	----	1111	7E7F7G7H 0
014302 +0210	4211	4212	4213	4214	0017	----	----	1111	7I7J7K7L 0

014303	+0214	4215	4216	4217	4220	0017	----	----	1111	7M7N707P	0
014304	+0220	4221	4222	4223	4224	0017	----	----	1111	7Q7R7S7T	0
014305	+0224	4254	0000	0015	0000	1012	--1-	----	1-1-	7= M HJ	
014306	+0230	4231	4317	0000	0000	0014	----	----	11--	7Y80 L	
014307	+0234	0000	0000	4347	4240	1403	--11	----	--11	8*75LC	
014310	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879	0
014311	+0244	4245	4246	4247	4250	0017	----	----	1111	7+7-7*7/	0
014312	+0250	4251	0323	4165	4256	1017	--1-	----	1111	71CS6 7,H0	
014313	+0254	4255	4257	4262	4260	0017	----	----	1111	7 7.7 7 0	
014314	+0260	4261	4263	4266	4264	0017	----	----	1111	7 7 7 7 0	
014315	+0264	4265	4267	4270	4271	0017	----	----	1111	7 7 7 7 0	
014316	+0270	4273	4272	4274	0217	0017	----	----	1111	7 7 7 80 0	
014317	+0274	4275	4276	4277	4300	0017	----	----	1111	7 7 7 8 0	
014320	+0300	4301	4302	4303	4304	0017	----	----	1111	8A888C8D	0
014321	+0304	4305	4306	4307	4310	0017	----	----	1111	8E8F8G8H	0
014322	+0310	4311	4312	4313	0363	0017	----	----	1111	8I8J8K	0
014323	+0314	4315	0245	0441	4320	0017	----	----	1111	8M8+068P	0
014324	+0320	4321	4322	4323	4324	0017	----	----	1111	8Q8R8S8T	0
014325	+0324	4325	4326	4327	4330	0017	----	----	1111	8U8V8W8X	0
014326	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081	0
014327	+0334	4340	0000	0001	0136	1413	--11	----	1-11	85 AA3LK	
014330	+0340	4341	4343	4147	4344	1017	--1-	----	1111	86886*89HD	
014331	+0344	4673	0000	0040	6500	1013	--1-	----	1-11	- 5 HK	
014332	+0350	4351	4352	4353	4435	0017	----	----	1111	8(8)8892	0
014333	+0354	4355	4356	4357	4360	4017	1---	----	1111	8 8,8.8 50	
014334	+0360	4361	4362	4363	4364	0017	----	----	1111	8 8 8 8 0	
014335	+0364	4365	4366	4367	4370	0017	----	----	1111	8 8 8 8 0	
014336	+0370	4371	4372	4373	4374	0017	----	----	1111	8 8 8 8 0	
014337	+0374	4375	0330	4377	4400	1017	--1-	----	1111	8 CX8 9 HO	
014340	+0400	0217	4402	4403	0430	2017	-1--	----	1111	809B9C0XPO	
014341	+0404	4405	4406	4407	4410	4017	1---	----	1111	9E9F9G9H50	
014342	+0410	0045	4412	4413	4414	2017	-1--	----	1111	+9J9K9LPO	
014343	+0414	0213	0256	4417	0340	3017	-11-	----	1111	8KB,90C5X0	
014344	+0420	0002	0171	4423	0457	7017	111-	----	1111	8A 95D. 0	
014345	+0424	4425	0454	0104	0010	5417	1-11	----	1111	9UD=AD H=0	
014346	+0430	0002	0001	0003	0302	7417	1111	----	1111	8 A CCB 0	
014347	+0434	0152	4460	0037	4440	5417	1-11	----	1111	A)9 495=0	
014350	+0440	4441	0211	0110	0002	1417	--11	----	1111	968IAH 8LO	
014351	+0444	0417	0257	4447	4450	7017	111-	----	1111	D08.9*9/ 0	
014352	+0450	0465	0140	0452	0043	3417	-111	----	1111	D A5D) 810	
014353	+0454	0105	0024	6477	0302	6417	11-1	----	1111	AE T C6 0	
014354	+0460	4463	0014	0036	4522	3017	-11-	----	1111	9 L 3+RXD	
014355	+0464	0443	0062	5637	0063	7417	1111	----	1111	08 ,4 0	
014356	+0470	0410	0000	4473	0420	5013	1-1-	----	1-11	DH 9- DP/K	
014357	+0474	4475	4476	0106	0000	4016	1---	----	111-	9 9 AF 5N	
014360	+0500	0000	0000	0000	4504	0401	---1	----	---1	+DDA	
014361	+0504	4505	4506	4507	4510	0017	----	----	1111	+E+F+G+H 0	
014362	+0510	4511	4512	4513	4514	0017	----	----	1111	+I+J+K+L 0	
014363	+0514	4515	0255	0247	0230	1417	--11	----	1111	+MB 8*BXLO	
014364	+0520	4521	0072	4545	4524	4417	1--1	----	1111	+Q ++T90	
014365	+0524	0075	0024	0141	0023	3417	-111	----	1111	TA6 S10	
014366	+0530	0044	0117	0021	0104	7417	1111	----	1111	9AD QAD 0	
014367	+0534	0103	0054	0035	0143	7417	1111	----	1111	AC = 2A8 0	
014370	+0540	0120	0021	0022	0015	7417	1111	----	1111	AP Q R M 0	
014371	+0544	0012	4640	0102	4550	5417	1-11	----	1111	J-5AB+/-0	
014372	+0550	0261	0446	0004	4554	3417	-111	----	1111	B D- D+=10	
014373	+0554	0265	0066	4557	0451	3017	-11-	----	1111	B +.D(X0	



014374	+0560	0036	0003	4563	0047	7017	111-	----	1111	3 C+ # 0
014375	+0564	0070	0030	0027	0143	7417	1111	----	1111	X WAB 0
014376	+0570	0207	0040	0057	0130	7417	1111	----	1111	BG 5 .AX 0
014377	+0574	3777	0153	3777	0415	2417	-1-1	----	1111	4 A44 DMT0
014400	+0600	3777	0057	3777	0070	2417	-1-1	----	1111	4 .4 TO
014401	+0604	0064	0044	0040	0111	7417	1111	----	1111	9 5AI 0
014402	+0610	0064	4612	0055	0134	6417	11-1	----	1111	-J AI 0
014403	+0614	0050	0207	0046	0054	7417	1111	----	1111	/BG - = 0
014404	+0620	0053	0066	0102	0014	7417	1111	----	1111	\$ AB L 0
014405	+0624	4625	0031	4627	0262	5017	1-1-	----	1111	-U Y-WB /0
014406	+0630	4631	4632	4633	4634	4017	1----	----	1111	-Y-Z-O-150
014407	+0634	4635	4636	0435	0100	0417	----	-1	1111	-2-3D2A 00
014410	+0640	4661	0002	0043	0025	3417	-111	----	1111	- .B 8 U10
014411	+0644	0344	0061	0204	0005	7417	1111	----	1111	C9 BD E 0
014412	+0650	0204	0014	0005	0057	7417	1111	----	1111	BD L E . 0
014413	+0654	0073	0030	0026	0053	7417	1111	----	1111	X V \$ 0
014414	+0660	0004	4662	4675	0123	4417	1--1	----	1111	D- - AS90
014415	+0664	0113	0126	0207	4670	7417	1111	----	1111	AKAVBG- 0
014416	+0670	4671	4672	0123	5333	0017	----	----	1111	- - AS40 0
014417	+0674	0353	5104	0002	0002	5417	1-11	----	1111	C4(D B B=0
014420	+0700	0002	0002	0002	0001	7417	1111	----	1111	8 8 B A 0
014421	+0704	4705	0041	0013	4710	5417	1-11	----	1111	*E 6 K+H=0
014422	+0710	0004	0067	0072	0036	3417	-111	----	1111	D 310
014423	+0714	0103	0045	0217	0036	7417	1111	----	1111	AC +BD 3 0
014424	+0720	0034	0007	0046	0065	7417	1111	----	1111	1 G - 0
014425	+0724	0052	4726	0040	0420	6417	11-1	----	1111	J*V 5DP 0
014426	+0730	4731	0317	0236	0016	5417	1-11	----	1111	*YCOB3 N=0
014427	+0734	0056	0150	0001	0062	7417	1111	----	1111	,A/ A 0
014430	+0740	0044	0036	0037	0023	7417	1111	----	1111	9 3 4 S 0
014431	+0744	0336	0073	0046	4750	7417	1111	----	1111	C3 -*/ 0
014432	+0750	0200	0405	4753	0026	3017	-11-	----	1111	B DE*\$ VX0
014433	+0754	0175	0035	0113	0104	7417	1111	----	1111	A 2AKAD 0
014434	+0760	4761	0035	4763	4764	5017	1-1-	----	1111	* 2* * /0
014435	+0764	4765	4766	4767	4770	0017	----	----	1111	* * * * 0
014436	+0770	4771	0345	0240	0047	1417	--11	----	1111	* C+B5 *LO
014437	+0774	0056	0202	0273	0254	7417	1111	----	1111	,888 B= 0
014440	+1000	0231	0132	0177	5004	7417	1111	----	1111	BYAZA /D 0
014441	+1004	0316	0210	0103	5010	3417	-111	----	1111	CNBHAC/H10
014442	+1010	0245	5012	0267	0211	2417	-1-1	----	1111	8+/J8 BIT0
014443	+1014	5015	5016	0024	0366	4417	1--1	----	1111	/M/N TC 90
014444	+1020	0071	0106	0075	5024	7417	1111	----	1111	AF /T 0
014445	+1024	5025	5026	5027	0460	0017	----	----	1111	/U/V/WD 0
014446	+1030	0106	5032	5033	5034	6017	11--	----	1111	AF/Z/O/1 0
014447	+1034	5035	0233	0125	0136	1417	--11	----	1111	/280AUA3LO
014450	+1040	5041	0156	0137	5044	5417	1-11	----	1111	/6A,A4/9=0
014451	+1044	0264	0114	0200	5050	3417	-111	----	1111	B ALB //10
014452	+1050	0245	0472	0025	0007	3417	-111	----	1111	B+D U G10
014453	+1054	0312	0164	0273	5060	7417	1111	----	1111	CJA B / 0
014454	+1060	5061	0321	0323	5064	1417	--11	----	1111	/ CQCS/ LO
014455	+1064	0240	0013	0024	0013	3417	-111	----	1111	85 K T K10
014456	+1070	0022	0013	0022	0013	7417	1111	----	1111	R K R K 0
014457	+1074	0021	0013	0022	0023	7417	1111	----	1111	Q K R S 0
014460	+1100	0115	5102	0040	0167	6417	11-1	----	1111	AM(B 5A 0
014461	+1104	5121	0321	0305	0126	3417	-111	----	1111	(QCQCEAV10
014462	+1110	0101	0117	0243	0021	7417	1111	----	1111	AAA088 Q 0
014463	+1114	0230	5116	0232	0327	6417	11-1	----	1111	8X(NBZCW 0
014464	+1120	0015	5131	0361	0246	5417	1-11	----	1111	M(YC B--0

014465	+1124	0002	5126	5127	5130	6017	11--	----	1111	8(V(W(X	0
014466	+1130	0167	5200	0222	0033	1417	--11	----	1111	A ) BR OLO	
014467	+1134	0164	5136	0106	0100	6417	11-1	----	1111	A (3AFA	0
014470	+1140	0004	0056	5143	0046	7017	111-	----	1111	D ,(8 -	0
014471	+1144	5145	5146	0040	5150	4417	1--1	----	1111	(+(- 5(790	
014472	+1150	5151	5152	0040	5154	0417	----	----	1111	((() 5(-00	
014473	+1154	5155	5156	0022	0054	0417	----	----	1111	( (, R -00	
014474	+1160	0047	0134	0121	0072	7417	1111	----	1111	*A1AQ	0
014475	+1164	0075	0034	0072	0253	7417	1111	----	1111	I B\$	0
014476	+1170	0006	0074	0054	0070	7417	1111	----	1111	F =	0
014477	+1174	0024	0054	0056	0103	7417	1111	----	1111	T = ,AC	0
014500	+1200	5242	5202	0465	0174	2417	-1-1	----	1111	77BD A TO	
014501	+1204	5205	5206	0020	0102	4417	1--1	----	1111	7E7F PAB90	
014502	+1210	0373	5212	5213	0040	6017	11--	----	1111	C )J)K 5	0
014503	+1214	5215	0046	5217	5220	5017	1-1-	----	1111	7M -70)P/O	
014504	+1220	5221	0010	0056	0351	1417	--11	----	1111	7Q H ,(CLO	
014505	+1224	0434	0417	5227	5230	7017	111-	----	1111	0100)W)X	0
014506	+1230	5231	0471	5233	5234	1017	--1-	----	1111	7YD 70)7HO	
014507	+1234	5235	0040	0210	0223	1417	--11	----	1111	72 5BHB5LO	
014510	+1240	0334	0136	5266	5244	6417	11-1	----	1111	C1A3) 79	0
014511	+1244	5245	5246	5247	5250	0017	----	----	1111	7+)-)* /	0
014512	+1250	5251	0414	5253	0071	1017	--1-	----	1111	7(DL)S HO	
014513	+1254	5255	0252	5257	5260	5017	1-1-	----	1111	7)B)(). /	0
014514	+1260	5261	5262	5263	5264	0017	----	----	1111	7) ) ) )	0
014515	+1264	0112	0015	5312	0060	2417	-1-1	----	1111	AJ M\$J TO	
014516	+1270	0124	0205	0175	5274	7417	1111	----	1111	ATBEA )	0
014517	+1274	5275	0237	5277	5300	1017	--1-	----	1111	7B4) \$ HO	
014520	+1300	5301	6476	5303	5304	1017	--1-	----	1111	7A 7C\$DHO	
014521	+1304	5305	5306	5307	5310	0017	----	----	1111	7E\$F\$G\$H	0
014522	+1310	0043	0261	5752	5314	2417	-1-1	----	1111	8B .) \$LTO	
014523	+1314	5315	5316	5317	5320	0017	----	----	1111	7M\$N\$O\$P	0
014524	+1320	5321	5322	5323	5324	0017	----	----	1111	7Q\$R\$S\$T	0
014525	+1324	5325	5326	5327	5330	0017	----	----	1111	7U\$V\$W\$X	0
014526	+1330	5331	0060	0263	5366	1017	--1-	----	1111	7Y B \$ HO	
014527	+1334	0000	0000	0000	0000	0000	----	----	----	----	

014534	+1360	0000	0000	0000	4160	0001	----	----	----	6 A	
014535	+1364	0000	6135	5367	5370	0007	----	----	-111	2\$ \$ G	
014536	+1370	5371	5372	5373	5374	0017	----	----	1111	\$ \$ \$ \$	0
014537	+1374	5534	5470	0156	5421	2417	-1-1	----	1111	1= A,-QTO	
014540	+1400	5401	5402	5403	5404	4017	1----	----	1111	=A=B=C-D50	
014541	+1404	5405	5406	5407	5410	0017	----	----	1111	=E=F=G=H	0
014542	+1410	5411	5412	5413	5414	0017	----	----	1111	=I=J=K=L	0
014543	+1414	0431	0112	5417	5420	3017	-11-	----	1111	DYAJ=O=PXO	
014544	+1420	0160	5422	5423	5424	0017	----	----	1111	A =R=S=T	0
014545	+1424	5425	5426	5427	5430	0017	----	----	1111	=U=V=W=X	0
014546	+1430	5431	5432	5433	5434	0017	----	----	1111	=Y=Z=0=1	0
014547	+1434	5435	5436	5437	5440	0017	----	----	1111	=2=3=4=5	0
014550	+1440	5441	5442	5443	5444	0017	----	----	1111	=6=7=8=9	0
014551	+1444	5445	5446	5447	5450	0017	----	----	1111	=+=-=*=/	0
014552	+1450	0226	0452	5453	0174	3017	-11-	----	1111	BVD)=5A XO	
014553	+1454	5455	5456	5457	5460	4017	1----	----	1111	= , = =	50
014554	+1460	5461	5462	5463	5464	0017	----	----	1111	= = = =	0
014555	+1464	5465	0114	0227	0423	1417	--11	----	1111	= ALBWDSLO	
014556	+1470	5471	5472	5473	5527	0017	----	----	1111	= = = W	0
014557	+1474	5475	5476	5477	5500	4017	1----	----	1111	= = =	50
014560	+1500	5501	5502	0310	0166	0417	----	----	1111	A BCHA DO	

RA = MST,6,7,11,12,13,14.  
000000 CM 16.23.30. 79/08/17.

(35) CYBER 174 S/N 620 CLSH. EXPRESS 11

DSDI - V2.0 79/10/30. 10.59.50. PAGE 13  
NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

014561	+1504	0347	0063	5507	5510	7017	111-	----	1111	C*	G	H	O					
014562	+1510	5511	5512	5513	5514	0017	----	----	1111	I	J	K	L	O				
014563	+1514	0460	0040	0013	5520	3417	-111	----	1111	D	5	K	P10					
014564	+1520	5521	5522	5523	5524	0017	----	----	1111	Q	R	S	T	O				
014565	+1524	5525	5526	0027	5531	0017	----	----	1111	U	V	W	Y	O				
014566	+1530	0137	5532	5533	5546	4017	1----	----	1111	A4	Z	O	-50					
014567	+1534	5535	5536	5537	5540	0017	----	----	1111	2	3	4	5	O				
014570	+1540	5541	5542	5543	5544	0017	----	----	1111	6	7	8	9	O				
014571	+1544	5545	5636	5547	5550	0017	----	----	1111	+	3	*	/	O				
014572	+1550	5553	0005	0055	5624	3017	-11-	----	1111	\$	E	,	TX0					
014573	+1554	5555	5556	5557	5560	4017	1----	----	1111	,	.	50						
014574	+1560	5561	5562	5563	5564	0017	----	----	1111					O				
014575	+1564	5565	6353	0072	0124	1417	--11	----	1111	\$	ATL0							
014576	+1570	0143	0322	5573	5574	7017	111-	----	1111	A8CR				O				
014577	+1574	5575	5576	5577	5600	0017	----	----	1111					O				
014600	+1600	5601	5602	5603	5604	0017	----	----	1111	,	A	B	C	D	O			
014601	+1604	5605	5606	0265	5610	0417	----1	----	1111	,	E	,	FB	,	H0			
014602	+1610	5611	5612	5613	5614	0017	----	----	1111	,	I	,	J	,	K	,	L	O
014603	+1614	5615	5616	5617	5620	0017	----	----	1111	,	M	,	N	,	O	,	P	O
014604	+1620	5621	5622	0012	0004	0417	----1	----	1111	,	Q	,	R		J		0	0
014605	+1624	5625	5626	5627	5630	0017	----	----	1111	,	U	,	V	,	W	,	X	O
014606	+1630	5631	5632	5633	5634	0017	----	----	1111	,	Y	,	Z	,	0	,	1	O
014607	+1634	5635	0000	6532	5640	0017	----	----	1111	,	2		Z	,	5	O		
014610	+1640	5641	5642	5643	5644	0017	----	----	1111	,	6	,	7	,	8	,	9	O
014611	+1644	5645	5646	5647	5650	0017	----	----	1111	,	+	,	-	,	*	,	/	O
014612	+1650	5651	5652	5653	5654	0017	----	----	1111	,	(	,	)	,	\$	,	=	O
014613	+1654	5655	5656	5657	5660	0017	----	----	1111	,	,	,	,	,	0			
014614	+1660	5661	5662	5663	5664	0017	----	----	1111	,	,	,	,	,	0			
014615	+1664	5665	5666	5667	5670	0017	----	----	1111	,	,	,	,	,	0			
014616	+1670	5671	5672	5673	5674	0017	----	----	1111	,	,	,	,	,	0			
014617	+1674	5675	5676	5677	5700	0017	----	----	1111	,	,	,	,	.	0			
014620	+1700	5701	6125	5746	5704	1417	--11	----	1111	.	A	U	.	-	.	D	L	O
014621	+1704	5705	5706	5707	5710	0017	----	----	1111	.	E	.	F	.	G	.	H	O
014622	+1710	5711	5712	5713	5714	0017	----	----	1111	.	I	.	J	.	K	.	L	O
014623	+1714	5715	5716	5717	5720	0017	----	----	1111	.	M	.	N	.	O	.	P	O
014624	+1720	5721	5722	5723	5724	0017	----	----	1111	.	Q	.	R	.	S	.	T	O
014625	+1724	5725	5726	5727	5730	0017	----	----	1111	.	U	.	V	.	W	.	X	O
014626	+1730	5731	5732	5733	5734	0017	----	----	1111	.	Y	.	Z	.	0	.	1	O
014627	+1734	5735	5736	5737	5740	0017	----	----	1111	.	2	.	3	.	4	.	5	O
014630	+1740	5741	5742	5743	5744	0017	----	----	1111	.	6	.	7	.	8	.	9	O
014631	+1744	5745	0500	6016	5750	0417	----1	----	1111	.	+	E		N	.	/	0	
014632	+1750	5751	0145	6312	5754	0417	----1	----	1111	.	(	A	+	J	.	=	0	
014633	+1754	5755	0103	5757	5760	1017	--1-	----	1111	.	AC	.	.	.	HO			
014634	+1760	5761	5762	5763	5764	0017	----	----	1111	.	.	.	.	.	0			
014635	+1764	5765	5766	5767	5770	0017	----	----	1111	.	.	.	.	.	0			
014636	+1770	5771	5772	5773	5774	0017	----	----	1111	.	.	.	.	.	0			
014637	+1774	5775	5776	5777	6000	0017	----	----	1111	.	.	.	.	.	0			
014640	+2000	6001	6002	6003	6004	0017	----	----	1111	A	B	C	D	O				
014641	+2004	6005	6006	6007	6010	0017	----	----	1111	E	F	G	H	O				
014642	+2010	6011	6012	6013	6014	0017	----	----	1111	I	J	K	L	O				
014643	+2014	6015	0332	6121	6020	0417	----1	----	1111	MCZ	Q	P	D	O				
014644	+2020	6021	0234	6023	6024	1017	--1-	----	1111	QR1	S	TH0						
014645	+2024	6025	6026	6027	6030	0017	----	----	1111	U	V	W	X	O				
014646	+2030	6031	6032	6033	6034	0017	----	----	1111	Y	Z	0	1	O				
014647	+2034	6035	6036	6037	6040	0017	----	----	1111	2	3	4	5	O				
014650	+2040	6041	6042	6043	6044	0017	----	----	1111	6	7	8	9	O				
014651	+2044	6045	6046	6047	6050	0017	----	----	1111	+	-	*	/	O				

014652 +2050 6051 6052 0224 6054 0417 ----1 ---- 1111 ( )BT =00  
 014653 +2054 6055 6056 6057 6060 0017 ---- ---- 1111 , . 0  
 014654 +2060 6061 6062 6063 6064 0017 ---- ---- 1111 0  
 014655 +2064 6065 6066 6067 6070 0017 ---- ---- 1111 0  
 014656 +2070 6071 6072 6073 6074 0017 ---- ---- 1111 0  
 014657 +2074 6075 6076 6077 6100 0017 ---- ---- 1111 0  
 014660 +2100 6101 6102 6103 6104 0017 ---- ---- 1111 A B C D O  
 014661 +2104 6105 6106 6107 6110 0017 ---- ---- 1111 E F G H O  
 014662 +2110 6111 6112 6113 6114 0017 ---- ---- 1111 I J K L O  
 014663 +2114 6115 6116 6117 0364 0017 ---- ---- 1111 M N O C O  
 014664 +2120 0165 6122 6123 6124 4017 1---- ---- 1111 A R S T50  
 014665 +2124 5365 6126 6127 6130 0017 ---- ---- 1111 \$ V W X O  
 014666 +2130 6131 6132 6133 6134 0017 ---- ---- 1111 Y Z O 1 O  
 014667 +2134 0164 0076 0000 6140 0415 ----1 ---- 11-1 A 5DM  
 014670 +2140 6141 6142 6143 6144 0017 ---- ---- 1111 6 7 8 9 O  
 014671 +2144 6145 6146 6147 6150 0017 ---- ---- 1111 + - \* / O  
 014672 +2150 6151 6152 6153 6154 0017 ---- ---- 1111 ( ) \$ = O  
 014673 +2154 6155 6156 6157 6160 0017 ---- ---- 1111 , . 0  
 014674 +2160 6161 6162 6163 6164 0017 ---- ---- 1111 0  
 014675 +2164 6165 6166 6167 6170 0017 ---- ---- 1111 0  
 014676 +2170 6171 6172 6173 6174 0017 ---- ---- 1111 0  
 014677 +2174 6175 6176 6177 6200 0017 ---- ---- 1111 0  
 014700 +2200 6201 6202 6203 0266 0017 ---- ---- 1111 A B C B O  
 014701 +2204 0000 0000 0000 0000 0000 ---- ---- ----

014703 +2214 0117 0176 6217 6220 7017 111- ---- 1111 ADA O P O  
 014704 +2220 6221 6222 6223 6224 0017 ---- ---- 1111 Q R S T O  
 014705 +2224 6225 6226 6227 6230 0017 ---- ---- 1111 U V W X O  
 014706 +2230 6231 6232 6233 6234 0017 ---- ---- 1111 Y Z O 1 O  
 014707 +2234 6235 6236 6237 6240 0017 ---- ---- 1111 2 3 4 5 O  
 014710 +2240 6241 6242 6243 6244 0017 ---- ---- 1111 6 7 8 9 O  
 014711 +2244 6245 6246 6247 6250 0017 ---- ---- 1111 + - \* / O  
 014712 +2250 6251 6252 6253 6254 0017 ---- ---- 1111 ( ) \$ = O  
 014713 +2254 6255 6256 6257 6260 0017 ---- ---- 1111 , . 0  
 014714 +2260 6261 6262 6263 6264 0017 ---- ---- 1111 0  
 014715 +2264 6265 6266 6267 6270 0017 ---- ---- 1111 0  
 014716 +2270 6271 6272 6273 6274 0017 ---- ---- 1111 0  
 014717 +2274 6275 6276 6277 6300 0017 ---- ---- 1111 0  
 014720 +2300 6301 6302 6303 6304 0017 ---- ---- 1111 A B C D O  
 014721 +2304 6305 6306 6307 6310 0017 ---- ---- 1111 E F G H U  
 014722 +2310 0100 0363 6342 0025 2417 -1-1 ---- 1111 A C 7 UTO  
 014723 +2314 6315 6316 6317 6320 4017 1---- ---- 1111 M N O P50  
 014724 +2320 6321 6322 6323 6324 0017 ---- ---- 1111 Q R S T O  
 014725 +2324 6325 6326 6327 6330 0017 ---- ---- 1111 U V W X O  
 014726 +2330 6331 6332 6333 6334 0017 ---- ---- 1111 Y Z O 1 O  
 014727 +2334 6335 6336 6337 6340 0017 ---- ---- 1111 2 3 4 5 O  
 014730 +2340 6341 0274 6343 6346 0017 ---- ---- 1111 6B 8 - O  
 014731 +2344 0044 0045 6361 0120 6417 11-1 ---- 1111 9 + AP O  
 014732 +2350 0000 0000 0000 0064 0001 ---- ---- ----1 A  
 014733 +2354 0367 0152 6357 6360 7017 111- ---- 1111 C A) . O  
 014734 +2360 0006 6375 6363 0240 1017 --1- ---- 1111 F 85HO  
 014735 +2364 0036 0037 0035 0030 7417 1111 ---- 1111 3 4 2 X O  
 014736 +2370 0012 0022 0050 0050 7417 1111 ---- 1111 J R / / O  
 014737 +2374 0004 6443 0202 0123 5417 1-11 ---- 1111 D 8UBAS=O  
 014740 +2400 0150 0445 6403 0111 7017 111- ---- 1111 A/D+ CAI O  
 014741 +2404 6405 0022 6407 0047 5017 1-1- ---- 1111 E R G +/O  
 014742 +2410 6411 0140 0115 0301 5417 1-11 ---- 1111 IASAMCA=O

014743	+2414	6415	0306	6417	0456	5017	1-1-	----	1111	MCF	DD, /O
014744	+2420	0500	6422	0076	0175	6417	11-1	----	1111	E R A O	
014745	+2424	6425	0367	6427	0022	5017	1-1-	----	1111	UC W R/O	
014746	+2430	6431	0205	0147	6434	5417	1-11	----	1111	YBEA* 1=0	
014747	+2434	0204	0266	0205	0154	3417	-111	----	1111	BDB BEA=10	
014750	+2440	0306	0276	0366	4456	7017	111-	----	1111	CFB C 9, O	
014751	+2444	0006	0003	6447	6450	7017	111-	----	1111	F C * / O	
014752	+2450	6451	6452	6453	6454	0017	----	----	1111	( ) \$ = 0	
014753	+2454	6455	6456	6457	6460	0017	----	----	1111	, . O	
014754	+2460	6461	6462	6463	6464	0017	----	----	1111	O	
014755	+2464	6465	6466	6467	6470	0017	----	----	1111	O	
014756	+2470	6471	6472	6473	6474	0017	----	----	1111	O	
014757	+2474	6475	0024	0105	5363	0017	----	----	1111	TAE \$ O	
014760	+2500	6501	6502	6503	6504	0017	----	----	1111	A B C D O	
014761	+2504	6505	6506	6507	6510	0017	----	----	1111	E F G H O	
014762	+2510	6511	6512	6513	6514	0017	----	----	1111	I J K L O	
014763	+2514	6515	6516	6517	6520	0017	----	----	1111	M N O P O	
014764	+2520	6521	6522	6523	6524	0017	----	----	1111	Q R S T O	
014765	+2524	6525	6526	6527	6530	0017	----	----	1111	U V W X O	
014766	+2530	6531	6556	6533	6534	0017	----	----	1111	Y , O 1 O	
014767	+2534	6535	6536	6537	0433	0017	----	----	1111	2 3 400 O	
014770	+2540	6541	0156	0141	0001	5417	1-11	----	1111	6A, A6 A=0	
014771	+2544	0301	6546	6550	0136	6417	11-1	----	1111	CA - /A3 O	
014772	+2550	6551	6552	6553	6554	0017	----	----	1111	( ) \$ = 0	
014773	+2554	6555	6557	6624	6560	0017	----	----	1111	. I O	
014774	+2560	6561	6562	6563	6564	0017	----	----	1111	O	
014775	+2564	6565	6566	6567	6570	0017	----	----	1111	O	
014776	+2570	6571	6572	6573	6574	0017	----	----	1111	O	
014777	+2574	6575	6576	6577	6600	0017	----	----	1111	O	
015000	+2600	6601	6602	6603	6604	0017	----	----	1111	A B C D O	
015001	+2604	6605	6606	6607	6610	0017	----	----	1111	E F G H O	
015002	+2610	6611	6612	6613	0404	0017	----	----	1111	I J KDD O	
015003	+2614	0000	0000	3777	0000	0002	----	----	--1-	4 B	
015004	+2620	0000	0000	0000	5376	0401	----	----	----1	\$ DA	
015005	+2624	6625	6626	6627	6630	0017	----	----	1111	U V W X O	
015006	+2630	6631	6632	6633	6634	0017	----	----	1111	Y Z O 1 O	
015007	+2634	6635	6636	6637	6640	0017	----	----	1111	2 3 4 5 O	
015010	+2640	6641	6642	6643	6644	0017	----	----	1111	6 7 8 9 O	
015011	+2644	6645	6646	6647	6650	0017	----	----	1111	+ - * / O	
015012	+2650	6651	6652	6653	6654	0017	----	----	1111	( ) \$ = 0	
015013	+2654	6655	6656	6657	6660	0017	----	----	1111	, . O	
015014	+2660	6661	6662	6663	6664	0017	----	----	1111	O	
015015	+2664	6665	6666	6667	6670	0017	----	----	1111	O	
015016	+2670	6671	6672	6673	6674	0017	----	----	1111	O	
015017	+2674	6675	6676	6677	6700	0017	----	----	1111	O	
015020	+2700	6701	6702	6703	6704	0017	----	----	1111	A B C D O	
015021	+2704	6705	6706	6707	6710	0017	----	----	1111	E F G H O	
015022	+2710	6711	6712	6713	6714	0017	----	----	1111	I J K L O	
015023	+2714	6715	6716	6717	6720	0017	----	----	1111	M N O P O	
015024	+2720	6721	6722	6723	6724	0017	----	----	1111	Q R S T O	
015025	+2724	6725	6726	6727	6730	0017	----	----	1111	U V W X O	
015026	+2730	6731	6732	6733	6734	0017	----	----	1111	Y Z O 1 O	
015027	+2734	6735	6736	6737	6740	0017	----	----	1111	2 3 4 5 O	
015030	+2740	6741	6742	6743	6744	0017	----	----	1111	6 7 8 9 O	
015031	+2744	6745	6746	6747	6750	0017	----	----	1111	+ - * / O	
015032	+2750	6751	6752	6753	6754	0017	----	----	1111	( ) \$ = 0	
015033	+2754	6755	6756	6757	6760	0017	----	----	1111	, . O	

015034	+2760	6761	6762	6763	6764	0017	----	----	1111						0
015035	+2764	6765	6766	6767	6770	0017	----	----	1111						0
015036	+2770	6771	6772	6773	6774	0017	----	----	1111						0
015037	+2774	6775	6776	6777	7000	0017	----	----	1111						0
015040	+3000	7001	7002	7003	7004	0017	----	----	1111	A	B	C	D	0	
015041	+3004	7005	7006	7007	7010	0017	----	----	1111	E	F	G	H	0	
015042	+3010	7011	7012	7013	7014	0017	----	----	1111	I	J	K	L	0	
015043	+3014	7015	7016	7017	7021	0017	----	----	1111	M	N	O	Q	0	
015044	+3020	3777	7022	7023	7024	0017	----	----	1111	4	R	S	T	0	
015045	+3024	7025	7026	7027	7030	0017	----	----	1111	U	V	W	X	0	
015046	+3030	7031	7032	7033	7034	0017	----	----	1111	Y	Z	0	1	0	
015047	+3034	7035	7036	7037	7040	0017	----	----	1111	2	3	4	5	0	
015050	+3040	7041	7042	7043	7044	0017	----	----	1111	6	7	8	9	0	
015051	+3044	7045	7046	7047	7050	0017	----	----	1111	+	-	*	/	0	
015052	+3050	7051	7052	7053	7054	0017	----	----	1111	(	)	\$	-	0	
015053	+3054	7055	7056	7057	7060	0017	----	----	1111	.	.			0	
015054	+3060	7061	7062	7063	7064	0017	----	----	1111					0	
015055	+3064	7065	7066	7067	7070	0017	----	----	1111					0	
015056	+3070	7071	7072	7073	7074	0017	----	----	1111					0	
015057	+3074	7075	7076	7077	7100	0017	----	----	1111					0	
015060	+3100	7101	7102	7103	7104	0017	----	----	1111	A	B	C	D	0	
015061	+3104	7105	7106	7107	7110	0017	----	----	1111	E	F	G	H	0	
015062	+3110	7111	7112	7113	7114	0017	----	----	1111	I	J	K	L	0	
015063	+3114	7115	7116	7117	7120	0017	----	----	1111	M	N	O	P	0	
015064	+3120	7121	7122	7123	7124	0017	----	----	1111	Q	R	S	T	0	
015065	+3124	7125	7126	7127	7130	0017	----	----	1111	U	V	W	X	0	
015066	+3130	7131	7132	7133	7134	0017	----	----	1111	Y	Z	0	1	0	
015067	+3134	7135	7136	7137	4253	0017	----	----	1111	2	3	4	7	0	

EQUIPMENT 11 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 015070 3150		Y/ FZ5=0D	ALLOCATION FLAGS	DILL 015103 0000			TS	B
RESERVED		0000		CH 2 ACCESS 7154 FLAG		24			
LENGTH OF TRT		0632		CH 1 ACCESS 7154 FLAG		23			
FIRST AVAIL TRACK PTR		4054		CH 4 ACCESS 7154 FLAG		00			
NUM AVAILABLE TRACKS		1704		CH 3 ACCESS 7154 FLAG		00			
FLAGS / INTERLOCK	ACGL 015071 0000		AK A	BIT 21 IS MAINTENANCE MODE		0			
DA ECS CHAIN FIRST TRACK		0000		MEMORY TYPE - 3 BIT VALUE		0			
DIRECT ACCESS FILE CNT		0113		CPU TYPE - 3 BIT VALUE		0			
FIRST TRACK IQFT		0000		PP PATH TYPE - 3 BIT VALUE		0			
REDEFINITION STATUSES		01		RESERVED		00			
PF UTILITY INTERLOCK		00		ALGORITHM INDEX		02			
ECS ADDRESS MST/TRT	SDGL 015072 00000000			DAYFILE TRACK	DULL 015104 0000				
ECS UPDATE COUNT		0000000000		ACCOUNT FILE TRACK		0000			
MACHINE MASK INTERLOCK		00		ERRLOG TRACK		0000			
FIRST TRACK IAPF	ALGL 015073 4022		5R5 5S P	SYSTEM TABLE TRACK		0000			
LABEL TRACK		4000		FAMILY IDLE STATUS		0000			
FIRST TRACK PERMITS		4023		FAMILY ACTIVITY COUNT		0			
NUMBER CATALOG TRACKS		0020		FAMILY STATUS FLAGS	STLL 015105 0000			62	A
FIRST TRACK DAT		0000		RESERVED		00			
FAMILY OR PACK NAME	PFGL 015074 24232407051600		TSTGEN	ERRKOR STATUS		00			
DEVICE NUMBER		00		MACHINE ID		00	4135		
RESERVED		00		CURRENT USER COUNT DAF		0000			
REL UNIT MULTIUNIT DEV		0		NEXT EQUIPMENT		00			
NUM UNIT MULTIUNIT DEV		0		ORIGINAL NUMBER UNITS		0			
USER NUM PRIVATE PACK	PUGL 015075 00000000000000			LOCAL STATUS		1			
DEVICE MASKS		577777		REDEF IN PROG/NULL EQ	DDLL 015106 0				B

RA = MST,6,7,11,12,13,14.  
0000000 CM 16.23.30.

EXPRESS 11  
S/N 620 CLSH.

SDSI - V2.0 79/10/30. 10.59.51.  
NOS 1-8J03T/R2B.

PAGE 17  
NOS L.4 STUDY DUMP - MASS STORAGE

FLAGS AND DAT INDEX MDGL 015076 7000  
FT-HT FLAG \*\* SECTOR LIMIT 4343  
DRIVER NAME 0411  
O RESERVED FOR PPR USE 0000  
SECTOR LIMIT 0343  
RESERVED R1GL 015077 00000000000000000000  
GLOBAL INSTAL AREA ISGL 015100 00000000000000000000  
I2GL 015101 0000000000000000000000  
ACTIVITY COUNT DALL 015102 0000  
UNIT INTERLOCKS 0000  
CURRENT POSITION 4000  
NEXT BEST POSITION 7777  
RESERVED 0000

88DI C8

RESERVED 0  
NUMBER PHYSICAL UNITS - 1 00  
EQUIPMENT UNIT LIST 00000000000000000000  
LOCAL INSTAL AREA ISLL 015107 00000000000000000000

TRACK RESERVATION TABLE

015110	+0000	4001	4002	4003	4004	4017	1---	----	1111	5A585C5050
015111	+0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
015112	+0010	4011	4012	4013	4014	0017	----	----	1111	5I5J5K5L 0
015113	+0014	4015	4016	4017	4020	0017	----	----	1111	5M5N5O5P 0
015114	+0020	4021	0000	4371	0076	1417	--11	----	1111	5Q 8 LO
015115	+0024	0102	4026	4027	4030	6017	11--	----	1111	AB5V5W5X 0
015116	+0030	4031	4032	4033	4034	0017	----	----	1111	5Y5Z5051 0
015117	+0034	4035	0110	0015	0027	1417	--11	----	1111	5ZAH M WLO
015120	+0040	0015	0020	0041	0006	7417	1111	----	1111	M P 6 F 0
015121	+0044	0034	4060	4230	4050	7417	1111	----	1111	15 7X5/ 0
015122	+0050	4051	4052	4053	4054	0017	----	----	1111	5(5)5(5)- 0
015123	+0054	0130	0152	4063	0256	3417	-111	----	1111	AXA)5 B,10
015124	+0060	0017	0001	6431	4064	2017	-1--	----	1111	0 A Y5 PO
015125	+0064	4065	4066	4067	4070	0017	----	----	1111	5 5 5 5 0
015126	+0070	4071	4072	4073	4074	0017	----	----	1111	5 5 5 5 0
015127	+0074	4075	4076	4077	4100	0017	----	----	1111	5 5 5 6 0
015130	+0100	4101	4102	4103	4104	0017	----	----	1111	6A6B6C6D 0
015131	+0104	4105	4106	4107	4110	0017	----	----	1111	6E6F6G6H 0
015132	+0110	4111	4112	4113	4114	0017	----	----	1111	6I6J6K6L 0
015133	+0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P 0
015134	+0120	4121	4122	4123	4124	0017	----	----	1111	6Q6R6S6T 0
015135	+0124	4125	4126	4127	4130	0017	----	----	1111	6U6V6W6X 0
015136	+0130	4131	4132	4133	4134	0017	----	----	1111	6Y6Z6061 0
015137	+0134	4135	4136	0011	4140	0417	---1	----	1111	6263 16500
015140	+0140	4141	4142	4143	4144	0017	----	----	1111	66676869 0
015141	+0144	4145	4146	4147	4150	0017	----	----	1111	6*6-6*6/ 0
015142	+0150	4151	4152	4153	4154	0017	----	----	1111	6(6)6(6)* 0
015143	+0154	4155	4156	4157	4160	0017	----	----	1111	6 6,6.6 0
015144	+0160	4161	4162	4164	3777	0017	----	----	1111	6 6 6 4 0
015145	+0164	4165	4166	4167	4170	0017	----	----	1111	6 6 6 6 0
015146	+0170	4171	4172	4173	4174	0017	----	----	1111	6 6 6 6 0
015147	+0174	4175	4176	4177	4200	0017	----	----	1111	6 6 6 7 0
015150	+0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D 0
015151	+0204	4205	4206	4207	4211	0017	----	----	1111	7E7F7G7I 0
015152	+0210	5362	4212	4213	5113	0017	----	----	1111	\$ 7J7K(K 0
015153	+0214	0167	4216	4221	4227	2417	-1-1	----	1111	A 7N7O7WTO
015154	+0220	4214	4222	4223	4224	4017	1----	----	1111	7L7R7S7T50
015155	+0224	4225	4226	0072	4231	0017	----	----	1111	7U7V 7Y 0
015156	+0230	4232	4235	4233	4234	0017	----	----	1111	7Z727071 0
015157	+0234	0034	0132	4247	4240	1417	--11	----	1111	1AZ7*75LO
015160	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.51. PAGE 18  
NOS 1-8J03T/K2H. NOS 1.4 STUDY DUMP - MASS STORAGE

015161 +0244 4245 4246 0076 4250 0017 ---- ---- 1111 7+7- 7/ 0  
015162 +0250 4251 4252 4253 4254 0017 ---- ---- 1111 7(7)7+7- 0  
015163 +0254 4255 4256 0243 4260 0017 ---- ---- 1111 7 7,8+7 0  
015164 +0260 4261 4262 0255 0015 0417 ----1 ---- 1111 7 7 8 MDO  
015165 +0264 0000 5302 4267 4270 1007 --1- ---- -111 887 7 HG  
015166 +0270 4272 3777 0130 3777 0017 ---- ---- 1111 7 4 AX4 0  
015167 +0274 3777 3777 0001 4300 1417 --11 ---- 1111 4 4 AB LO  
015170 +0300 4301 4302 0120 0001 0417 ----1 ---- 1111 8A8BAP ADD  
015171 +0304 0001 4306 4307 4310 6017 11-- ---- 1111 ABF8G8H 0  
015172 +0310 4311 4312 4313 4314 0017 ---- ---- 1111 818J8K8L 0  
015173 +0314 4315 0336 4320 3777 1017 --1- ---- 1111 8MC38P4 HO  
015174 +0320 4322 3777 4323 4324 0017 ---- ---- 1111 8R4 8S8T 0  
015175 +0324 4325 0130 4327 4330 1017 --1- ---- 1111 8UAX8W8XHO  
015176 +0330 4331 4332 4333 4334 0017 ---- ---- 1111 8Y8Z8081 0  
015177 +0334 4335 4336 4337 4340 0017 ---- ---- 1111 82838485 0  
015200 +0340 4341 0336 4343 4344 1017 --1- ---- 1111 86C38889HO  
015201 +0344 4345 4346 4347 0153 0017 ---- ---- 1111 8+8-8+A8 0  
015202 +0350 4351 4352 4353 0112 4017 1---- ---- 1111 8(8)88AJ50  
015203 +0354 4355 4356 4357 4360 4017 1---- ---- 1111 8 8,8.8 50  
015204 +0360 4361 4362 4363 4364 0017 ---- ---- 1111 8 8 8 8 0  
015205 +0364 4365 4366 4367 0325 0017 ---- ---- 1111 8 8 8 CU 0  
015206 +0370 0003 4372 4373 4374 4017 1---- ---- 1111 C8 8 8 50  
015207 +0374 4375 4376 4377 4403 0017 ---- ---- 1111 8 8 8 9C 0  
015210 +0400 4401 0023 0000 4404 4015 1---- ---- 11-1 9A S 9D5M  
015211 +0404 4405 4406 4444 4410 0417 ----1 ---- 1111 9E9F999HDD  
015212 +0410 4411 4412 4413 4414 0017 ---- ---- 1111 9I9J9K9L 0  
015213 +0414 4415 0151 0000 0000 0014 ---- ---- 11-- 9MA( L  
015214 +0420 4257 0000 0000 0000 0010 ---- ---- 1---- 7. H  
015215 +0424 0000 0000 0000 0000 0000 ---- ---- ----

015217 +0434 0001 4436 4437 4440 6017 11-- ---- 1111 A939495 0  
015220 +0440 4441 4442 4443 0151 0017 ---- ---- 1111 969798A( 0  
015221 +0444 4636 0000 0000 0000 0010 ---- ---- 1---- -3 H  
015222 +0450 0000 0000 4453 4454 1003 --1- ---- --11 989=HC  
015223 +0454 4455 0262 0002 4460 1417 --11 ---- 1111 9 8 89 LO  
015224 +0460 4461 4462 4463 4464 0017 ---- ---- 1111 9 9 9 9 0  
015225 +0464 4465 4466 4467 4470 0017 ---- ---- 1111 9 9 9 9 0  
015226 +0470 4471 4472 4473 4474 0017 ---- ---- 1111 9 9 9 9 0  
015227 +0474 4475 4476 4477 4500 0017 ---- ---- 1111 9 9 9 + 0  
015230 +0500 4501 4502 4503 4504 0017 ---- ---- 1111 +A+B+C+D 0  
015231 +0504 4505 4506 4507 4510 0017 ---- ---- 1111 +E+F+G+H 0  
015232 +0510 4511 4512 4513 4514 0017 ---- ---- 1111 +I+J+K+L 0  
015233 +0514 4515 4516 4517 4520 0017 ---- ---- 1111 +M+N+O+P 0  
015234 +0520 4521 4522 4523 4524 0017 ---- ---- 1111 +Q+R+S+T 0  
015235 +0524 4525 4526 4527 4530 0017 ---- ---- 1111 +U+V+W+X 0  
015236 +0530 4531 4532 4533 4534 0017 ---- ---- 1111 +Y+Z+0+1 0  
015237 +0534 4535 4536 4537 4540 0017 ---- ---- 1111 +2+3+4+5 0  
015240 +0540 4541 4542 4543 4544 0017 ---- ---- 1111 +6+7+8+9 0  
015241 +0544 4545 4546 4547 4550 0017 ---- ---- 1111 +++-+++/ 0  
015242 +0550 4551 4552 4553 4554 0017 ---- ---- 1111 +(+)+#+= 0  
015243 +0554 4555 4556 4557 4560 0017 ---- ---- 1111 + +,+.+ 0  
015244 +0560 4561 4562 4563 4564 0017 ---- ---- 1111 + + + + 0  
015245 +0564 4565 4566 4567 4570 0017 ---- ---- 1111 + + + + 0  
015246 +0570 4571 4572 4573 4574 0017 ---- ---- 1111 + + + + 0  
015247 +0574 4575 4576 4577 4600 0017 ---- ---- 1111 + + + - 0  
015250 +0600 4601 4602 4603 4604 0017 ---- ---- 1111 -A-B-C-D 0  
015251 +0604 4605 4606 4607 4610 0017 ---- ---- 1111 -E-F-G-H 0



RA = MST,6,7,11,12,13,14. EXPRESS 11  
000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSOI - V2.0 79/10/30. 10.59.51. PAGE 19  
NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

015252	+0610	4611	4612	4613	4614	0017	----	----	1111	-I-J-K-L O
015253	+0614	4615	4616	4617	4620	0017	----	----	1111	-M-N-O-P O
015254	+0620	4621	4622	4623	4624	0017	----	----	1111	-Q-R-S-T O
015255	+0624	4625	4626	4627	4630	0017	----	----	1111	-U-V-W-X O
015256	+0630	4631	4632	4633	4634	0017	----	----	1111	-Y-Z-0-1 O
015257	+0634	4635	0150	4734	4640	0417	----	----	1111	-2A/+1-500
015260	+0640	0160	4642	4643	4644	2017	-1--	----	1111	A -7-8-9PO
015261	+0644	4645	4646	4647	4650	0017	----	----	1111	-+---+-/ O
015262	+0650	4651	4652	4653	4654	0017	----	----	1111	-(-)-\$-# O
015263	+0654	4655	4656	4657	4660	0017	----	----	1111	-,-,- O
015264	+0660	0024	4662	4663	4664	2017	-1--	----	1111	T- - - PO
015265	+0664	4665	4666	4667	4670	0017	----	----	1111	- - - - O
015266	+0670	4671	4672	4673	4674	0017	----	----	1111	- - - - O
015267	+0674	4675	0167	4677	4700	1017	--1-	----	1111	- A - * HO
015270	+0700	4701	4702	4703	4704	0017	----	----	1111	*A*B*C*D U
015271	+0704	4705	4706	4707	4710	0017	----	----	1111	*E*F*G*H U
015272	+0710	4711	4712	0061	4714	0417	----	----	1111	*I*J *LDU
015273	+0714	4715	4716	4717	4720	0017	----	----	1111	*M*N*O*P O
015274	+0720	4721	4722	4723	4724	0017	----	----	1111	*Q*R*S*T O
015275	+0724	4725	4726	4727	4730	0017	----	----	1111	*U*V*W*X O
015276	+0730	4731	4732	4733	0100	0017	----	----	1111	*Y*Z*O A O
015277	+0734	5026	4736	4737	4740	2017	-1--	----	1111	/V*3*4*5PO
015300	+0740	4741	4742	0032	4744	0417	----	----	1111	*6*7 Z*900
015301	+0744	4745	4746	4747	4750	0017	----	----	1111	*+*-+*/ O
015302	+0750	4751	4752	4753	4754	0017	----	----	1111	*(*)*#*# O
015303	+0754	4755	4756	4757	4760	0017	----	----	1111	* * , * , * O
015304	+0760	4761	4762	4763	4764	0017	----	----	1111	* * * * O
015305	+0764	4765	4766	4767	4770	0017	----	----	1111	* * * * O
015306	+0770	4771	4772	4773	4774	0017	----	----	1111	* * * * O
015307	+0774	4775	4776	4777	5000	0017	----	----	1111	* * * / O
015310	+1000	5001	5002	5003	5004	0017	----	----	1111	/A/B/C/D O
015311	+1004	5005	5006	5007	5010	0017	----	----	1111	/E/F/G/H O
015312	+1010	5011	0227	5013	5014	1017	--1-	----	1111	/IBW/K/LHO
015313	+1014	0273	0000	0000	0000	0010	----	----	1----	B H
015314	+1020	0000	0000	0000	0000	0000	----	----	----	----
015315	+1024	0000	0000	5271	0012	0403	----	----	--11	) JDC
015316	+1030	5031	5032	0270	5034	4417	1--1	----	1111	/Y/ZB /190
015317	+1034	5035	5036	5037	5040	0017	----	----	1111	/2/3/4/5 O
015320	+1040	5041	5042	5043	5044	0017	----	----	1111	/6/7/8/9 O
015321	+1044	5045	5046	5047	5050	0017	----	----	1111	/+/-/*// O
015322	+1050	5051	5052	5053	5054	0017	----	----	1111	/(/)/#/# O
015323	+1054	5055	5056	5057	5060	0017	----	----	1111	/ / , / / O
015324	+1060	5061	5062	5063	5064	0017	----	----	1111	/ / / / O
015325	+1064	5065	5066	5067	5070	0017	----	----	1111	/ / / / O
015326	+1070	5071	5072	5073	5074	0017	----	----	1111	/ / / / O
015327	+1074	5075	5076	5077	5100	0017	----	----	1111	/ / / ( O
015330	+1100	5101	5102	5103	5104	0017	----	----	1111	(A(B(C(D O
015331	+1104	5105	5106	5107	5110	0017	----	----	1111	(E(F(G(H O
015332	+1110	0265	0000	0000	5114	0011	----	----	1--1	B (L I
015333	+1114	0011	0041	5117	5120	3017	-11-	----	1111	1 6(O(PXO
015334	+1120	5121	5122	5123	5124	0017	----	----	1111	(O(R(S(T O
015335	+1124	5125	0137	5127	5130	1017	--1-	----	1111	(UA*(W(XHO
015336	+1130	5131	5132	5133	0032	0017	----	----	1111	(Y(Z(O Z O
015337	+1134	5135	5136	0332	0043	4417	1--1	----	1111	(2(3CZ 890
015340	+1140	5141	5142	0043	5144	4417	1--1	----	1111	(6(7 8(990
015341	+1144	5145	0335	5147	5150	1017	--1-	----	1111	(+C2(+(/HO
015342	+1150	0054	5152	5153	5154	2017	-1--	----	1111	-(){}(=PO

RA = MST,6,7,11,12,13,14. EXPRESS 11  
000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

OSDI - V2.0 79/10/30. 10.59.51. PAGE 20  
NDS 1-8J03T/R2B. NDS 1.4 STUDY DUMP - MASS STORAGE

015343 +1154 5155 5156 5157 5160 0017 ---- ---- 1111 ( ( ( ( 0  
015344 +1160 5161 5162 0224 5164 0417 ---1 ---- 1111 ( ( BT ( DO  
015345 +1164 5165 5166 5167 5170 0017 ---- ---- 1111 ( ( ( ( 0  
015346 +1170 5171 5172 5173 5174 0017 ---- ---- 1111 ( ( ( ( 0  
015347 +1174 5175 5176 5177 5200 0017 ---- ---- 1111 ( ( ( ) 0  
015350 +1200 5201 5202 5203 5204 0017 ---- ---- 1111 )A)B)C)D 0  
015351 +1204 5206 3777 0255 5210 0417 ---1 ---- 1111 )F4 B )HDO  
015352 +1210 5211 0301 5213 5214 1017 ---1- ---- 1111 )ICA)K)LHO  
015353 +1214 5216 5217 5220 5223 0017 ---- ---- 1111 )N)O)P)S 0  
015354 +1220 5221 5222 5224 5225 0017 ---- ---- 1111 )Q)R)T)U 0  
015355 +1224 5226 5227 5231 0017 ---- ---- 1111 )V)X)W)Y 0  
015356 +1230 5233 5232 5275 5303 0017 ---- ---- 1111 )O)Z) )C 0  
015357 +1234 0303 4265 0000 5240 4415 1--1 ---- 11-1 CC7 159H  
015360 +1240 5241 5242 0113 0240 0417 ---1 ---- 1111 )6)7)AKB500  
015361 +1244 0115 0000 0000 0000 4010 1--- ---- 1--- AM 5H  
015362 +1250 0000 0000 0000 0000 0000 ---- ---- ----  
015363 +1254 0000 0000 0103 5260 1403 --11 ---- --11 AC) LC  
015364 +1260 5261 5262 5263 5264 0017 ---- ---- 1111 ) ) ) ) 0  
015365 +1264 5265 5266 5267 5270 0017 ---- ---- 1111 ) ) ) ) 0  
015366 +1270 0001 5272 5273 5277 0017 ---- ---- 1111 A) ) ) 0  
015367 +1274 5215 5276 5304 5235 4017 1--- ---- 1111 )M) )D)1250  
015370 +1300 0000 0000 4210 5307 0003 ---- ---- --11 7H)G C  
015371 +1304 5305 5306 5310 0227 0017 ---- ---- 1111 \$E)F)\$H)B)W 0  
015372 +1310 0012 0000 0000 0000 0010 ---- ---- 1--- J H  
015373 +1314 0000 0000 0000 0000 0000 ---- ---- ----

015404 +1360 0000 0000 4062 0000 0002 ---- ---- --1- 5 B  
015405 +1364 0000 0000 0000 0000 0000 ---- ---- ----

015514 +2020 0000 0000 3777 0000 0002 ---- ---- --1- 4 B  
015515 +2024 0000 0000 0000 0000 0000 ---- ---- ----

015520 +2040 0000 0000 3777 0000 0002 ---- ---- --1- 4 B  
015521 +2044 0000 0000 0000 0000 0000 ---- ---- ----

015552 +2210 0000 0000 3777 0000 0002 ---- ---- --1- 4 B  
015553 +2214 3777 0000 0000 0000 0010 ---- ---- 1--- 4 H  
015554 +2220 0000 0000 0000 0000 0000 ---- ---- ----

015616 +2430 0000 4420 0000 0000 0004 ---- ---- -1- 9P D  
015617 +2434 0000 0000 0000 0000 0000 ---- ---- ----

EQUIPMENT 12 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 015750 3222	ZR F+B-H/	ALLOCATION FLAGS	DILL 015763 0000	** F
RESERVED	0000		CH 2 ACCESS 7154 FLAG	45	
LENGTH OF TRT	0645		CH 1 ACCESS 7154 FLAG	47	
FIRST AVAIL TRACK PTR	4346		CH 4 ACCESS 7154 FLAG	00	
NUM AVAILABLE TRACKS	1050		CH 3 ACCESS 7154 FLAG	00	
FLAGS / INTERLOCK	ACGL 015751 4000	5 K3 A	BIT 21 IS MAINTENANCE MODE	0	
DA ECS CHAIN FIRST TRACK	0000		MEMORY TYPE - 3 BIT VALUE	0	
DIRECT ACCESS FILE CNT	1336		CPU TYPE - 3 BIT VALUE	0	
FIRST TRACK IQFT	0000		PP PATH TYPE - 3 BIT VALUE	0	
REDEFINITION STATUSES	01		RESERVED	00	
PF UTILITY INTERLOCK	00		ALGORITHM INDEX	00	
ECS ADDRESS MST/TRT	SDGL 015752 00000000		DAYFILE TRACK	DULL 015764 0000	06

ECS UPDATE COUNT 0000000000  
MACHINE MASK INTERLOCK 00  
FIRST TRACK IAPF ALGL 015753 4012 5J5 5K H  
LABEL TRACK 4000  
FIRST TRACK PERMITS 4013  
NUMBER CATALOG TRACKS 0010  
FIRST TRACK DAT 0000  
FAMILY OR PACK NAME PFGL 015754 16172303142310 NOSCLSH7  
DEVICE NUMBER 42  
RESERVED 00  
REL UNIT MULTIUNIT DEV 0  
NUM UNIT MULTIUNIT DEV 0  
USER NUM PRIVATE PACK PUGL 015755 0000000000000000 5LC  
DEVICE MASKS 401403  
FLAGS AND DAT INDEX MDGL 015756 1000 H J DI J  
FT-HT FLAG /\* SECTOR LIMIT 1200  
DRIVER NAME 0411  
0 RESERVED FOR PPR USE 0000  
SECTOR LIMIT 1200  
RESERVED  
GLOBAL INSTAL AREA R1GL 015757 00000000000000000000  
ISGL 015760 0000000000000000000000  
I2GL 015761 0000000000000000000000  
ACTIVITY COUNT DALL 015762 0000 .C  
UNIT INTERLOCKS 0000  
CURRENT POSITION 5703  
NEXT BEST POSITION 7777  
RESERVED 0000

ACCOUNT FILE TRACK 0000  
ERRLOG TRACK 0000  
SYSTEM TABLE TRACK 0000  
FAMILY IDLE STATUS 0  
FAMILY ACTIVITY COUNT 000  
LOCAL STATUS FLAGS STLL 015765 0000 62 K A  
RESERVED 00  
ERROR STATUS 00  
MACHINE ID 4135  
CURRENT USER COUNT DAF 0013  
NEXT EQUIPMENT 00  
ORIGINAL NUMBER UNITS 0  
LOCAL STATUS 1  
REDEF IN PROG/NULL EQ DOLL 015766 0 5  
RESERVED 0  
NUMBER PHYSICAL UNITS - 1 00  
EQUIPMENT UNIT LIST 000000000000000040  
LOCAL INSTAL AREA ISLL 015767 00000000000000000000

TRACK RESERVATION TABLE

015770	+0000	4001	4002	4003	4004	4017	1---	----	1111	5A5B5C5D5O
015771	+0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
015772	+0010	4011	0000	4014	0250	1417	--11	----	1111	5I 5LB/LO
015773	+0014	4047	1027	0103	0212	3417	-111	----	1111	5*HWACBJLO
015774	+0020	4021	0372	0121	0321	5417	1-11	----	1111	5QC AQCO=0
015775	+0024	0317	0167	0006	0162	7417	1111	----	1111	COA FA 0
015776	+0030	1066	0410	1032	0652	7417	1111	----	1111	H DHHZF) 0
015777	+0034	0162	0001	0144	0003	7417	1111	----	1111	A AA9 C 0
016000	+0040	0161	0124	0111	0651	7417	1111	----	1111	A ATAIF( 0
016001	+0044	0002	0003	0001	4062	7017	111-	----	1111	B C A5 0
016002	+0050	0663	4052	0764	4054	6417	11-1	----	1111	F 5)G 5= 0
016003	+0054	0275	0245	0002	0005	3417	-111	----	1111	B B+ B ELO
016004	+0060	0004	0046	4101	0107	6417	11-1	----	1111	D -6AAG 0
016005	+0064	0064	0353	0026	0624	7417	1111	----	1111	C\$ VFT 0
016006	+0070	0006	0020	0723	0110	7417	1111	----	1111	F PGSAN 0
016007	+0074	4075	0447	0116	0056	5417	1-11	----	1111	5 D*AN ,=0
016010	+0100	0213	4125	0103	4104	5417	1-11	----	1111	8K6UAC6D=0
016011	+0104	0156	0457	0420	0441	3417	-111	----	1111	A,D.DPD6LO
016012	+0110	0410	0150	0067	0345	7417	1111	----	1111	DHA/ C+ 0
016013	+0114	0352	0056	0352	0206	7417	1111	----	1111	C) ,C)BF 0
016014	+0120	4121	0706	0050	4124	5417	1-11	----	1111	6QG /6T=0
016015	+0124	0607	4170	0130	4130	1417	--11	----	1111	FG6 AX6XLO
016016	+0130	4131	0715	4133	1074	1017	--1-	----	1111	6YGM6OH HO
016017	+0134	0063	4136	0704	4140	6417	11-1	----	1111	63G065 0
016020	+0140	4141	4142	4143	4144	0017	----	----	1111	66676869 0
016021	+0144	4145	4146	4147	0723	0017	----	----	1111	6+6-6*GS 0
016022	+0150	0032	4152	4153	0044	6017	11--	----	1111	7616\$ 9 0

RA - MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.51. PAGE 22  
NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

016023	+0154	0040	0126	4157	0010	7017	111-	----	1111	5AV6. H O
016024	+0160	0107	4162	0707	0002	6417	11-1	----	1111	AG6 GG B O
016025	+0164	4165	4166	4167	0565	4017	1---	----	1111	6 6 6 E 50
016026	+0170	4222	0336	0117	0300	3417	-111	----	1111	7RC3AUC 10
016027	+0174	0125	0053	0002	4200	7417	1111	----	1111	AU \$ B7 O
016030	+0200	0135	4202	0141	0041	2417	-1-1	----	1111	A27BA6 6TO
016031	+0204	0053	0011	1030	0125	7417	1111	----	1111	\$ IHXAU O
016032	+0210	4211	0135	0003	0053	5417	1-11	----	1111	7IA2 C \$=0
016033	+0214	0037	0277	0136	0001	7417	1111	----	1111	4B A3 A O
016034	+0220	0117	0004	4302	0057	6417	11-1	----	1111	AO DBB . O
016035	+0224	4225	0172	0012	0527	5417	1-11	----	1111	7UA JEW=O
016036	+0230	0716	0004	0306	0574	7417	1111	----	1111	GN DCFE O
016037	+0234	0004	0043	0004	0004	7417	1111	----	1111	D B D D O
016040	+0240	0004	0213	0105	0206	7417	1111	----	1111	DBKAEBF O
016041	+0244	0245	4246	4247	0240	6017	11--	----	1111	B+7-7*B5 O
016042	+0250	0002	0206	0002	0210	7417	1111	----	1111	BBF BBH O
016043	+0254	0105	0004	0002	0111	7417	1111	----	1111	AE D BAI O
016044	+0260	0014	0101	0240	0143	7417	1111	----	1111	LAAB5A8 O
016045	+0264	0105	0001	0262	0632	7417	1111	----	1111	AE AB FZ O
016046	+0270	0007	0114	0107	0260	7417	1111	----	1111	GALAGB O
016047	+0274	0033	0143	0105	0240	7417	1111	----	1111	OABAEBS O
016050	+0300	0036	0145	4345	0241	6417	11-1	----	1111	3A+8+B6 O
016051	+0304	0214	0001	0004	4310	7417	1111	----	1111	BL A D8H O
016052	+0310	4311	4312	4313	0113	0017	----	----	1111	818J8KAK O
016053	+0314	0105	0007	0024	0014	7417	1111	----	1111	AE G T L O
016054	+0320	0257	0242	4323	4324	7017	111-	----	1111	B.87858T O
016055	+0324	0547	4326	4327	4330	2017	-1--	----	1111	E+8V8W8XPO
016056	+0330	0755	0110	0207	0005	3417	-111	----	1111	G AH8G E10
016057	+0334	0001	0005	4337	0326	7017	111-	----	1111	A E84CV O
016060	+0340	0206	0125	0006	0006	7417	1111	----	1111	BFAU F F O
016061	+0344	0002	4413	1003	0002	5417	1-11	----	1111	B9KHC B=O
016062	+0350	0121	0011	0105	0105	7417	1111	----	1111	AQ IAEAE O
016063	+0354	0041	0310	0005	0110	7417	1111	----	1111	6CM EAH O
016064	+0360	0056	0014	0051	0003	7417	1111	----	1111	, L ( C O
016065	+0364	0465	0366	0470	0036	7417	1111	----	1111	D C D 3 O
016066	+0370	4371	4372	4373	0247	4017	1---	----	1111	8 8 8 B+50
016067	+0374	0502	0003	0120	0743	7417	1111	----	1111	EB CAPG8 O
016070	+0400	4401	5624	0316	0001	5417	1-11	----	1111	9A,TCN A=O
016071	+0404	0001	0057	0002	0115	7417	1111	----	1111	A . BAM O
016072	+0410	0006	0001	0643	4472	7017	111-	----	1111	F AF89 O
016073	+0414	0067	0010	0053	1003	7417	1111	----	1111	H \$HC O
016074	+0420	0044	0627	4423	4424	7017	111-	----	1111	9FW9S9T O
016075	+0424	4425	0247	4427	0525	1017	--1-	----	1111	9UB*9WUHO
016076	+0430	0021	0001	4433	4434	7017	111-	----	1111	Q A9091 O
016077	+0434	4435	4436	4437	0605	0017	----	----	1111	929394FE O
016100	+0440	4441	4442	4443	4444	4017	1---	----	1111	9697989950
016101	+0444	0061	1137	0070	0022	3417	-111	----	1111	I4 R10
016102	+0450	0072	0264	4453	0622	7017	111-	----	1111	B 9\$FR O
016103	+0454	0052	0261	0002	0011	7417	1111	----	1111	JB B I O
016104	+0460	0043	0001	0007	0112	7417	1111	----	1111	8 A CAJ O
016105	+0464	0007	0243	0136	0075	7417	1111	----	1111	GB8A3 O
016106	+0470	0047	0145	4475	4474	6417	11-1	----	1111	*A+9 9 O
016107	+0474	0602	4510	0114	0252	1417	--11	----	1111	FB+HALB1LO
016110	+0500	0110	0145	0101	0101	7417	1111	----	1111	AHA+AAAA O
016111	+0504	4505	4506	4507	0254	4017	1---	----	1111	*E+F+GB=50
016112	+0510	4531	0070	4513	0514	2017	-1--	----	1111	*Y +KELPO
016113	+0514	0043	0733	5637	0221	6417	11-1	----	1111	8CO,48Q O

016114 +0520 0114 0704 4523 1026 7017 111- ---- 1111 ALGD+SHV 0  
016115 +0524 0117 0024 0025 0633 7417 1111 ---- 1111 AD T UFO 0  
016116 +0530 0025 4660 0431 0205 5417 1-11 ---- 1111 U- DYBE=0  
016117 +0534 0573 0137 1051 4556 6417 11-1 ---- 1111 E A4H(+, 0  
016120 +0540 0013 0036 0334 0001 6417 11-1 ---- 1111 K 3C1 A 0  
016121 +0544 0001 0100 0311 0350 7417 1111 ---- 1111 AA CIC/ 0  
016122 +0550 4551 4552 4553 4554 4017 1--- ---- 1111 +(+)+\$+=50  
016123 +0554 0167 0332 4557 4560 2017 -1-- ---- 1111 A CZ+. + PO  
016124 +0560 5633 4562 5021 0115 0417 ---1 ---- 1111 ,0+ /QAMDD  
016125 +0564 0025 4566 4567 4570 6017 11-- ---- 1111 U+ + + 0  
016126 +0570 4571 4572 4573 4574 0017 ---- ---- 1111 + + + + 0  
016127 +0574 0600 0505 0035 1156 3417 -111 ---- 1111 F EE 2I,10  
016130 +0600 0060 0404 4603 0115 7017 111- ---- 1111 DD-CAM 0  
016131 +0604 1032 0250 0025 0132 7417 1111 ---- 1111 HZB/ UAZ 0  
016132 +0610 0052 0055 0137 4773 7417 1111 ---- 1111 ) A4\* 0  
016133 +0614 0037 0054 0004 0052 7417 1111 ---- 1111 4 = D ) 0  
016134 +0620 0005 0032 0011 0027 7417 1111 ---- 1111 E Z I W 0  
016135 +0624 0007 0046 0045 0075 7417 1111 ---- 1111 G - + 0  
016136 +0630 0021 0016 0026 0115 7417 1111 ---- 1111 Q N VAM 0  
016137 +0634 0122 0013 4637 0075 7017 111- ---- 1111 AR K-4 0  
016140 +0640 4641 1001 0570 0171 5417 1-11 ---- 1111 -6HAE A =0  
016141 +0644 0242 0122 0234 0145 7417 1111 ---- 1111 B7ARB1A+ 0  
016142 +0650 0023 0100 0064 0657 7417 1111 ---- 1111 SA F. 0  
016143 +0654 0647 0106 0105 0002 7417 1111 ---- 1111 F\*AFAE B 0  
016144 +0660 5111 4662 0712 0012 2417 -1-1 ---- 1111 (I- GJ JTO  
016145 +0664 4665 4666 4667 4670 4017 1--- ---- 1111 - - - - 50  
016146 +0670 4671 4672 4673 4674 0017 ---- ---- 1111 - - - - 0  
016147 +0674 4675 4676 4677 0462 0017 ---- ---- 1111 - - - D 0  
016150 +0700 0466 4702 0637 0303 6417 11-1 ---- 1111 D \*BF4CC 0  
016151 +0704 0317 0321 4707 0210 7017 111- ---- 1111 COCQ\*GBH 0  
016152 +0710 4711 4712 4713 4714 4017 1--- ---- 1111 \*I\*J\*K\*L50  
016153 +0714 4715 4716 4717 4720 0017 ---- ---- 1111 \*M\*N\*O\*P 0  
016154 +0720 4721 4722 4723 0526 0017 ---- ---- 1111 \*Q\*R\*S\*EV 0  
016155 +0724 1134 0545 0652 0776 7417 1111 ---- 1111 IIE+F)G 0  
016156 +0730 1031 0045 0155 4734 7417 1111 ---- 1111 HY +A \*1 0  
016157 +0734 0314 4736 4737 4740 2017 -1-- ---- 1111 CL\*3\*4\*5PO  
016160 +0740 0547 0534 0476 0132 3417 -111 ---- 1111 E\*E1D AZ10  
016161 +0744 4745 0603 4747 4750 5017 1-1- ---- 1111 \*\*FC\*\*\*//0  
016162 +0750 4751 4752 1122 0320 0417 ---1 ---- 1111 \*(\*)IRCPDD  
016163 +0754 0564 0541 4757 4760 7017 111- ---- 1111 E E6\*.\* 0  
016164 +0760 0031 0160 4763 4764 3017 -11- ---- 1111 YA \* \* X0  
016165 +0764 4765 4766 4767 0464 0017 ---- ---- 1111 \* \* \* D 0  
016166 +0770 0350 0124 0267 1125 7017 111- ---- 1111 C/ATB IU 0  
016167 +0774 0001 0012 0721 4561 7417 1111 ---- 1111 A JGQ+ 0  
016170 +1000 0457 0164 0162 5004 4417 1--1 ---- 1111 D.A A /D90  
016171 +1004 5005 5006 5062 0222 0417 ---1 ---- 1111 /E/F/ BRDD  
016172 +1010 0150 5012 5013 5014 6017 11-- ---- 1111 A//J/K/L 0  
016173 +1014 5015 0372 0051 5025 1417 --11 ---- 1111 /MC (/ULO  
016174 +1020 5024 5027 5632 0721 5417 1-11 ---- 1111 /T/W,ZGO=0  
016175 +1024 5026 4536 0332 5631 0017 ---- ---- 1111 /V+3CZ,Y 0  
016176 +1030 0064 5063 5033 5034 7017 111- ---- 1111 / /O/I 0  
016177 +1034 5035 5036 5037 5040 0017 ---- ---- 1111 /2/3/4/5 0  
016200 +1040 5041 5042 5043 5044 0017 ---- ---- 1111 /6/7/8/9 0  
016201 +1044 5045 5046 5047 5050 0017 ---- ---- 1111 /+/-/\*// 0  
016202 +1050 5051 5052 5053 0064 0017 ---- ---- 1111 /1/1/1 0  
016203 +1054 0022 0032 5057 5060 7017 111- ---- 1111 R Z/. / 0  
016204 +1060 0153 0350 0101 0663 2017 -1-- ---- 1111 A\$C/AAF PO

016205	+1064	1134	5002	0227	5070	7417	1111	----	1111	I1/BBW/ O
016206	+1070	5071	0053	0017	0630	1417	--11	----	1111	/ \$ OFXLO
016207	+1074	5075	5076	5077	5100	4017	1---	----	1111	/ / / ( 50
016210	+1100	5101	5102	5103	5104	0017	----	----	1111	(A18(C10 O
016211	+1104	5105	5106	5107	5110	0017	----	----	1111	(E(F(G(H O
016212	+1110	0202	5123	0702	0106	1417	--11	----	1111	BB(SGBAFLO
016213	+1114	5115	0407	0363	0363	5417	1-11	----	1111	(MDGC C =0
016214	+1120	0746	0002	0002	5125	7017	11-	----	1111	G- B B(U O
016215	+1124	0023	5216	0003	5130	5417	1-11	----	1111	S1N C(X=0
016216	+1130	5131	5132	5133	5134	0017	----	----	1111	(Y(Z(O(1 O
016217	+1134	5135	5136	5137	5140	0017	----	----	1111	(2(3(4(5 O
016220	+1140	5141	5142	5143	5144	0017	----	----	1111	(6(7(8(9 O
016221	+1144	5145	5146	5147	5150	0017	----	----	1111	(+(-(*(/ O
016222	+1150	5151	5152	5153	5154	0017	----	----	1111	((1(1(1(= O
016223	+1154	5155	5156	5157	0240	0017	----	----	1111	( (. (. B5 O
016224	+1160	0075	0313	0206	0367	7417	1111	----	1111	CKBFC O
016225	+1164	0156	0002	0136	0001	7417	1111	----	1111	A, BA3 A O
016226	+1170	0013	0165	0140	0003	7417	1111	----	1111	KA' A5 C O
016227	+1174	0165	5176	0654	0002	6417	11-1	----	1111	A ( F- B O
016230	+1200	0055	5202	5203	5204	6017	11--	----	1111	)B)C)D O
016231	+1204	0566	0422	0557	5210	3417	-111	----	1111	E DRE.)H10
016232	+1210	5211	5212	0565	0106	0417	---1	----	1111	)I)JE AFDO
016233	+1214	0002	0010	5314	0261	6417	11-1	----	1111	B HSLB O
016234	+1220	0261	5222	5223	5224	6017	11--	----	1111	B IR)S)T O
016235	+1224	5225	5226	5227	5230	0017	----	----	1111	)U)V)W)X O
016236	+1230	5231	5232	5233	5234	0017	----	----	1111	)Y)Z)0)1 O
016237	+1234	5235	5236	5237	5240	0017	----	----	1111	)2)3)4)5 O
016240	+1240	5241	5242	5243	0400	0017	----	----	1111	)6)7)8)D O
016241	+1244	0210	0027	5247	5250	7017	111-	----	1111	BH W)*)/ O
016242	+1250	5251	5252	5253	5254	0017	----	----	1111	)()())\$) = O
016243	+1254	5255	5256	5257	5260	0017	----	----	1111	) , , , ) O
016244	+1260	5261	0462	5263	0162	1017	--1-	----	1111	) D ) A HO
016245	+1264	0171	0027	5267	5270	7017	111-	----	1111	A W) ) O
016246	+1270	5271	5272	0102	5274	0417	---1	----	1111	) ) A0) DO
016247	+1274	0064	0103	0076	0123	3417	-111	----	1111	AC AS10
016250	+1300	5301	0407	0023	0113	5417	1-11	----	1111	\$ADG SAK=0
016251	+1304	0016	0013	0760	0377	7417	1111	----	1111	N KG C O
016252	+1310	0131	0132	0473	0024	7417	1111	----	1111	AYAZD T O
016253	+1314	5377	0031	0676	0054	3417	-111	----	1111	\$ YF =10
016254	+1320	0061	5322	0632	0237	6417	11-1	----	1111	\$RFZB4 O
016255	+1324	0131	0042	0527	0013	7417	1111	----	1111	AY 7EW K O
016256	+1330	0032	0050	0371	0453	7417	1111	----	1111	Z /C D\$ O
016257	+1334	0161	0021	0046	0151	7417	1111	----	1111	A Q -A( O
016260	+1340	0043	0046	0027	0006	7417	1111	----	1111	B - W F O
016261	+1344	0121	0006	5347	0133	7017	111-	----	1111	AQ F\$+AO O
016262	+1350	0042	0010	0337	0017	7417	1111	----	1111	7 HC4 O O
016263	+1354	0176	5356	5357	5360	6017	11--	----	1111	A \$, \$, \$ O
016264	+1360	5361	1032	0111	0011	1417	--11	----	1111	\$ HZAI ILO
016265	+1364	0623	0025	0105	0107	7417	1111	----	1111	FS UAEAG O
016266	+1370	0175	0246	0305	0306	7417	1111	----	1111	A B-CECF O
016267	+1374	0210	0301	0301	5423	7017	111-	----	1111	BHCACA-S O
016270	+1400	0030	0011	0003	0200	7417	1111	----	1111	X I CB O
016271	+1404	0064	0075	0770	0376	7417	1111	----	1111	C C O
016272	+1410	0772	0113	5413	0437	7017	111-	----	1111	G AK=KD4 O
016273	+1414	0022	0121	0572	0363	7417	1111	----	1111	RAQE C O
016274	+1420	5421	1121	0457	5463	5017	1-1-	----	1111	=OIQD. = /U
016275	+1424	5425	5426	0726	1104	4417	1--1	----	1111	=U=VGVID90

016276	+1430	0140	0164	0400	5434	7417	1111	----	1111	A5A D =1 0
016277	+1434	5435	5436	0135	0031	0417	----	1111	1111	=2=3A2 YDO
016300	+1440	5441	5442	0476	5444	4417	1----	1111	1111	=6=7D =990
016301	+1444	5445	0724	0261	1057	1417	----	1111	1111	=+GTB H.LO
016302	+1450	0155	0210	0524	0213	7417	1111	----	1111	A BHETBK 0
016303	+1454	0016	5456	0264	0103	6417	11-1	----	1111	N=.B AC 0
016304	+1460	0043	0125	0023	5606	7017	111-	----	1111	8AU S,F 0
016305	+1464	0233	0215	5467	0552	7017	111-	----	1111	80BM= E) 0
016306	+1470	5471	0406	5473	0621	5017	1-1-	----	1111	= DF= FQ/O
016307	+1474	0023	0102	0025	0131	7417	1111	----	1111	SAB UAY 0
016310	+1500	0025	0103	0065	0064	7417	1111	----	1111	UAC 0
016311	+1504	0034	0035	5507	0142	7017	111-	----	1111	1 2 GA7 0
016312	+1510	0261	5572	0001	5514	7417	1111	----	1111	B A L 0
016313	+1514	0536	0013	0245	5520	3417	-111	----	1111	E3 KB+ P10
016314	+1520	5521	5522	5523	5524	0017	----	1111	1111	Q R S T 0
016315	+1524	5525	5526	4516	0351	0417	----	1111	1111	U V+NC(DO
016316	+1530	0175	0145	0221	0171	7417	1111	----	1111	A A+BQA 0
016317	+1534	0425	0143	0203	0203	7417	1111	----	1111	DUA8BCBC 0
016320	+1540	0036	5542	0216	0002	6417	11-1	----	1111	3 7BN B 0
016321	+1544	0001	5546	0456	0036	6417	11-1	----	1111	A -D, 3 0
016322	+1550	5551	5552	5553	5554	4017	1----	1111	1111	( ) % =50
016323	+1554	5555	5556	5557	5560	0017	----	1111	1111	, . 0
016324	+1560	5561	5562	5563	0526	0017	----	1111	1111	EV 0
016325	+1564	5566	0063	0120	0236	6417	11-1	----	1111	APB3 0
016326	+1570	1077	5574	5615	0237	6417	11-1	----	1111	H ,MB4 0
016327	+1574	5575	5602	5577	0264	1017	--1-	----	1111	,B B HO
016330	+1600	0112	0021	5603	5604	6017	11--	----	1111	AJ Q,C,D 0
016331	+1604	5605	0516	6112	0160	0417	----	1111	1111	,EEN JA DO
016332	+1610	0220	5612	0630	0543	6417	11-1	----	1111	BP,JFXE8 0
016333	+1614	0065	5616	5617	0643	4017	1----	1111	1111	,N,OF850
016334	+1620	0133	0001	5623	0060	7017	111-	----	1111	AO A,S 0
016335	+1624	0022	0234	0013	0236	3417	-111	----	1111	RBI KB310
016336	+1630	0114	4512	1104	5635	4017	1----	1111	1111	AL+JID,250
016337	+1634	0024	5636	0413	5640	4017	1----	1111	1111	T,3DK,550
016340	+1640	5641	5651	0063	5644	1417	--11	----	1111	,6,( ,9LO
016341	+1644	0724	0060	5647	0146	3017	-11-	----	1111	GT ,*A-XO
016342	+1650	0061	5657	0065	1066	5417	1-11	----	1111	,. H =0
016343	+1654	0003	0026	0003	5660	7017	111-	----	1111	C V C, 0
016344	+1660	5661	0316	0507	5664	1417	--11	----	1111	, CNEG, LO
016345	+1664	5665	5717	0517	5673	1417	--11	----	1111	, .DEO, LO
016346	+1670	4542	0510	0213	5677	3017	-11-	----	1111	+7EHBK, XO
016347	+1674	0222	0251	0224	5701	7017	111-	----	1111	BRB(BT.A 0
016350	+1700	0224	0314	5703	0407	5017	1-1-	----	1111	BTCL.CDG/O
016351	+1704	0031	5706	0407	5710	6417	11-1	----	1111	Y.FDG.H 0
016352	+1710	0407	0267	0165	5714	3417	-111	----	1111	DGB A .L10
016353	+1714	0420	5716	0420	5720	2017	-1--	----	1111	DP.NDP.PPO
016354	+1720	0364	0675	0030	0033	3417	-111	----	1111	C F X O10
016355	+1724	0620	0110	0061	0002	7417	1111	----	1111	FPAH B 0
016356	+1730	0045	0151	0121	0127	7417	1111	----	1111	+A(AQAW 0
016357	+1734	5735	0675	0256	0020	5417	1-11	----	1111	.2F B, P=0
016360	+1740	0013	0651	0304	0347	7417	1111	----	1111	KF(CDC+ 0
016361	+1744	0063	5746	0145	0213	6417	11-1	----	1111	.-A+BK 0
016362	+1750	0102	0003	0224	0023	7417	1111	----	1111	AB CBT S 0
016363	+1754	0227	0074	0115	0033	7417	1111	----	1111	BW AM 0 0
016364	+1760	0051	0140	0541	0023	7417	1111	----	1111	(A5E6 S 0
016365	+1764	0040	0640	0201	5770	7417	1111	----	1111	5F5BA. 0
016366	+1770	0132	0023	0114	0054	3417	-111	----	1111	AZ SAL =10

016367	+1774	0115	1122	0113	0063	7417	1111	----	1111	AMIRAK	0
016370	+2000	0003	0064	0124	6004	7417	1111	----	1111	C AT D O	
016371	+2004	0050	0126	0012	0012	3417	-111	----	1111	/AV J J10	
016372	+2010	5001	0546	0132	0107	7417	1111	----	1111	/AE-AZAG O	
016373	+2014	0071	0104	0221	0007	7417	1111	----	1111	ADBO G O	
016374	+2020	0066	0023	0042	0160	7417	1111	----	1111	S 7A O	
016375	+2024	0023	0101	0135	0044	7417	1111	----	1111	SAAA2 9 O	
016376	+2030	0115	0132	0553	0224	7417	1111	----	1111	AMAZE1BT O	
016377	+2034	0030	0014	0124	0011	7417	1111	----	1111	X LAT I O	
016400	+2040	0337	0012	0026	0222	7417	1111	----	1111	C4 J VBR O	
016401	+2044	6045	0644	0640	6050	5417	1-11	----	1111	+F9F5 /#O	
016402	+2050	0175	0504	0017	0015	3417	-111	----	1111	A ED O M1O	
016403	+2054	0100	0041	0025	0105	7417	1111	----	1111	A 6 UAE O	
016404	+2060	1101	0022	0477	6064	7417	1111	----	1111	IA RD O	
016405	+2064	0007	6066	6067	6070	2017	-1--	----	1111	G PO	
016406	+2070	6071	6072	6073	6074	0017	----	----	1111	O	
016407	+2074	6122	0506	0506	0507	3417	-111	----	1111	REFEFEG1O	
016410	+2100	6101	0663	0220	0023	5417	1-11	----	1111	AF BP S=O	
016411	+2104	0023	0007	0504	0052	7417	1111	----	1111	S GED ) O	
016412	+2110	0506	0011	5670	0061	6417	11-1	----	1111	EF I, O	
016413	+2114	0042	0034	0147	0136	7417	1111	----	1111	7 1A+A3 O	
016414	+2120	0447	0110	0412	0110	6417	11-1	----	1111	D*AHDJAH O	
016415	+2124	0000	0000	0041	0163	1403	--11	----	--11	6A LC	
016416	+2130	0521	0011	0011	6134	7417	1111	----	1111	EQ I I 1 O	
016417	+2134	6135	6136	6137	6140	0017	----	----	1111	2 3 4 5 O	
016420	+2140	6141	6142	6143	6144	0017	----	----	1111	6 7 8 9 O	
016421	+2144	6145	6146	0173	0620	0417	---1	----	1111	+ -A FPDD	
016422	+2150	0055	0776	0000	0000	6014	11--	----	11--	G L	
016423	+2154	0000	0000	0000	0000	0000	----	----	----		

-----  
 016634 +3220 3777 3777 3777 3777 0017 ----- 1111 4 4 4 4 0

EQUIPMENT 13 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 016640 3222	ZR F+7-JT	ALLOCATION FLAGS	DILL 016653 0000	** F
RESERVED	0000		CH 2 ACCESS 7154 FLAG	47	
LENGTH OF TRT	0645		CH 1 ACCESS 7154 FLAG	45	
FIRST AVAIL TRACK PTR	4246		CH 4 ACCESS 7154 FLAG	00	
NUM AVAILABLE TRACKS	1224		CH 3 ACCESS 7154 FLAG	00	
FLAGS / INTERLOCK	ACGL 016641 0000	I, A	BIT 21 IS MAINTENANCE MODE	0	
DA ECS CHAIN FIRST TRACK	0000		MEMORY TYPE - 3 BIT VALUE	0	
DIRECT ACCESS FILE CNT	1156		CPU TYPE - 3 BIT VALUE	0	
FIRST TRACK IGFT	0000		PP PATH TYPE - 3 BIT VALUE	0	
REDEFINITION STATUSES	01		RESERVED	00	
PF UTILITY INTERLOCK	00		ALGORITHM INDEX	06	
LCS ADDRESS MST/TRT	SDGL 016642 00000000		DAYFILE TRACK	DULL 016654 0000	AA
ECS UPDATE COUNT	0000000000		ACCOUNT FILE TRACK	0000	
MACHINE MASK INTERLOCK	00		ERRLOG TRACK	0000	
FIRST TRACK IAFP	ALGL 016643 4012	5J5 5K H	SYSTEM TABLE TRACK	0000	
LABEL TRACK	4000		FAMILY IDLE STATUS	0	
FIRST TRACK PERMITS	4013		FAMILY ACTIVITY COUNT	101	
NUMBER CATALOG TRACKS	0010		LOCAL STATUS FLAGS	STLL 016655 0004	D 62 M A
FIRST TRACK DAT	0000		RESERVED	00	
FAMILY DR PACK NAME	PFGL 016644 16172303142310	NDSCLSHB	ERROR STATUS	00	
DEVICE NUMBER	43		MACHINE ID	4135	
RESERVED	00		CURRENT USER COUNT DAF	0015	
REL UNIT MULTIUNIT DEV	0		NEXT EQUIPMENT	00	



NUM UNIT MULTIUNIT DEV 0  
USER NUM PRIVATE PACK PUGL 016645 00000000000000 /B  
DEVICE MASKS 500200  
FLAGS AND DAT INDEX MDGL 016646 1000 H J DI J  
FT-HT FLAG \*/\* SECTOR LIMIT 1200  
DRIVER NAME 0411  
0 RESERVED FOR PPR USE 0000  
SECTOR LIMIT 1200  
RESERVED R1GL 016647 00000000000000000000  
GLOBAL INSTAL AREA ISGL 016650 00000000000000000000  
I2GL 016651 000000000000000000000000  
ACTIVITY COUNT DALL 016652 0000  
UNIT INTERLOCKS 0000  
CURRENT POSITION 5646  
NEXT BEST POSITION 7777  
RESERVED 0000

ORIGINAL NUMBER UNITS 0  
LOCAL STATUS 1  
REDEF IN PROG/NULL EO DOLL 016656 0 6  
RESERVED 0  
NUMBER PHYSICAL UNITS - 1 00  
EQUIPMENT UNIT LIST 00000000000000041  
LOCAL INSTAL AREA ISLL 016657 000000000000000000

TRACK RESERVATION TABLE

016660	+0000	4001	4002	4003	4004	4017	1---	----	1111	5A5B5C5D50
016661	+0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
016662	+0010	4011	0000	4052	0226	1417	--11	----	1111	5I 5J5K5L 0
016663	+0014	0044	0040	0040	4020	7417	1111	----	1111	9 5 55P 0
016664	+0020	4021	0144	0112	4024	1417	--11	----	1111	5QA9AJ5TL0
016665	+0024	4025	0145	4027	4030	1017	--1-	----	1111	5UA+5W5XHO
016666	+0030	0514	0157	0161	0166	3417	-111	----	1111	ELA.A A 10
016667	+0034	4035	0613	4037	0603	5017	1-1-	----	1111	52FK54FC/0
016670	+0040	0042	0202	0067	0157	7417	1111	----	1111	78B A. 0
016671	+0044	0450	4047	4214	5134	7017	111-	----	1111	D/5*7L(1 0
016672	+0050	0450	0114	4053	4076	6017	11--	----	1111	D/AL545 0
016673	+0054	0101	0104	0207	0055	7417	1111	----	1111	AAADBG 0
016674	+0060	0174	0176	0100	0105	7417	1111	----	1111	A A A AE 0
016675	+0064	0127	0067	0131	4070	7417	1111	----	1111	AW AY5 0
016676	+0070	0054	0132	0133	0135	3417	-111	----	1111	-AZA0A210
016677	+0074	0027	0074	4115	4100	6417	11-1	----	1111	W 6M6 0
016700	+0100	0216	0532	0246	0563	3417	-111	----	1111	BNEZB-E 10
016701	+0104	0776	0001	0112	0026	7417	1111	----	1111	G AAJ V 0
016702	+0110	0003	0003	0003	0233	7417	1111	----	1111	C C CBO 0
016703	+0114	0162	4145	0253	0017	5417	1-11	----	1111	A 6+8\$ 0=0
016704	+0120	0066	0070	0127	0103	7417	1111	----	1111	AWAC 0
016705	+0124	0006	0002	0522	0101	7417	1111	----	1111	F BERAA 0
016706	+0130	0002	1027	1066	0126	7417	1111	----	1111	BHWH AV 0
016707	+0134	0136	0014	0107	0724	7417	1111	----	1111	A3 LAGGT 0
016710	+0140	0230	0360	0004	0126	7417	1111	----	1111	BXC DAV 0
016711	+0144	0075	4216	0007	0256	5417	1-11	----	1111	7N GB,-0
016712	+0150	0002	0207	0133	0376	7417	1111	----	1111	8BGAOC 0
016713	+0154	0007	4156	4157	4160	6017	11--	----	1111	G6,6.6 0
016714	+0160	4161	4162	4163	4164	0017	----	----	1111	6 6 6 6 0
016715	+0164	4165	4166	4167	4170	0017	----	----	1111	6 6 6 6 0
016716	+0170	4171	4172	4173	4174	0017	----	----	1111	6 6 6 6 0
016717	+0174	4175	0620	4177	0247	1017	--1-	----	1111	6 FP6 B*HO
016720	+0200	4201	0567	0246	0175	5417	1-11	----	1111	7AE B-A =0
016721	+0204	0273	0126	0121	0401	7417	1111	----	1111	B AVAQDA 0
016722	+0210	0120	0126	0324	0262	7017	111-	----	1111	APAVCTB 0
016723	+0214	4215	4220	4350	4213	0417	----	----	1111	7M7P8/7KDU
016724	+0220	4544	0204	4223	4224	3017	-11-	----	1111	+98D7S7TX0
016725	+0224	4225	4226	4227	4230	0017	----	----	1111	7U7V7W7X 0

016726	+0230	0625	0230	0200	0413	3417	-111	----	1111	FUBXB DK10
016727	+0234	4235	4236	4237	4240	4017	1---	----	1111	7273747550
016730	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879 0
016731	+0244	4245	4246	4247	4250	0017	----	----	1111	7+7-7*7/ 0
016732	+0250	4251	4252	4253	4254	0017	----	----	1111	7(7)77- 0
016733	+0254	4255	4256	4257	4260	0017	----	----	1111	7 7,7.7 0
016734	+0260	4261	4262	4263	4264	0017	----	----	1111	7 7 7 7 0
016735	+0264	4265	4266	0554	1150	0417	----	----	1111	7 7 E-1/00
016736	+0270	0277	0270	4273	4274	7017	111-	----	1111	8 8 7 7 0
016737	+0274	4275	0314	4277	4300	1017	--1-	----	1111	7 CL7 8 HO
016740	+0300	4301	0314	0175	0713	1417	--11	----	1111	8ACLA GKLO
016741	+0304	4305	4306	4307	4310	4017	1---	----	1111	8E8F8G8H50
016742	+0310	4311	4312	4313	4314	0017	----	----	1111	8I8J8K8L 0
016743	+0314	0270	4316	4317	4320	2017	-1--	----	1111	8 8N808PP0
016744	+0320	4321	4322	4323	4324	0017	----	----	1111	8Q8R8S8T 0
016745	+0324	4325	4326	4327	4330	0017	----	----	1111	8U8V8W8X 0
016746	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081 0
016747	+0334	4335	4336	4337	4340	0017	----	----	1111	82838485 0
016750	+0340	4341	4342	4343	4344	0017	----	----	1111	86878889 0
016751	+0344	4345	4346	4347	0554	0017	----	----	1111	8+8-8+E- 0
016752	+0350	4433	0340	0242	4354	3417	-111	----	1111	90C5878=10
016753	+0354	0567	4356	0567	4360	2417	-1-1	----	1111	E 8,E 8 TO
016754	+0360	4361	0535	4363	0567	1017	--1-	----	1111	8 E28 E HO
016755	+0364	4365	4366	0525	0045	4417	1--1	----	1111	8 8 EU +90
016756	+0370	1035	0132	4373	0567	7017	111-	----	1111	H2A28 E 0
016757	+0374	4375	0624	4377	0753	5017	1-1-	----	1111	8 FT8 G5/0
016760	+0400	4401	0753	4403	0731	5017	1-1-	----	1111	9AG9CGY/0
016761	+0404	0176	0110	0142	0172	7417	1111	----	1111	A AHA7A 0
016762	+0410	0564	1105	4413	0671	7017	111-	----	1111	E IE9KF 0
016763	+0414	4416	3777	0570	3777	4017	1---	----	1111	9N4 E 4 50
016764	+0420	4421	4422	0514	1076	4417	1--1	----	1111	9Q9RELH 90
016765	+0424	0704	0711	0354	4430	7417	1111	----	1111	GDCIC-9X 0
016766	+0430	0420	0117	0564	4463	3017	-11-	----	1111	DPADE 9 XO
016767	+0434	0073	0151	0067	0216	7417	1111	----	1111	AI BN 0
016770	+0440	0430	0013	0150	0161	7417	1111	----	1111	DX KA/A 0
016771	+0444	0020	0035	4447	0054	7017	111-	----	1111	P 29* = 0
016772	+0450	4451	0665	4453	0665	5017	1-1-	----	1111	9(F 95F /0
016773	+0454	0001	0247	0001	0277	7417	1111	----	1111	AB* AB 0
016774	+0460	4461	0641	0300	4626	5017	1-1-	----	1111	9 F6C -V/0
016775	+0464	4465	4466	4467	4470	4017	1---	----	1111	9 9 9 9 50
016776	+0470	4471	4472	4473	4474	0017	----	----	1111	9 9 9 9 0
016777	+0474	4475	4476	4477	4500	0017	----	----	1111	9 9 9 + 0
017000	+0500	0227	0010	0060	4504	3417	-111	----	1111	BW H +D10
017001	+0504	0106	0332	0773	1017	3417	-111	----	1111	AFCZG H010
017002	+0510	1156	0171	0132	0451	7417	1111	----	1111	I,A AZD( 0
017003	+0514	0237	0473	0336	0424	7417	1111	----	1111	84D C3DT 0
017004	+0520	0433	0206	0212	0432	7417	1111	----	1111	DOBFBJDZ 0
017005	+0524	0002	0212	0115	0207	7417	1111	----	1111	BBJAMBG 0
017006	+0530	0076	0004	0036	0647	7417	1111	----	1111	D 3F+ 0
017007	+0534	0001	0160	0001	0106	7417	1111	----	1111	AA AAF 0
017010	+0540	0001	0214	0230	4702	7017	111-	----	1111	ABLBX+B 0
017011	+0544	4545	4546	4575	4550	0417	----	----	1111	+++-+ +/D0
017012	+0550	4551	4552	4553	4554	0017	----	----	1111	+(+)+3+ 0
017013	+0554	4555	4556	4557	1177	0017	----	----	1111	+ +,+ .1 0
017014	+0560	4561	0754	0104	4564	5417	1-11	----	1111	+ G-AD+ =0
017015	+0564	4565	4566	4567	4570	0017	----	----	1111	+ + + + 0
017016	+0570	4571	4572	4573	4574	0017	----	----	1111	+ + + + 0

017017	+0574	0101	4605	4577	0054	1017	--1-	----	1111	AA-E+ =HO
017020	+0600	0522	0027	0770	1107	7417	1111	----	1111	ER WG IG O
017021	+0604	0771	4606	4607	4610	4017	1----	----	1111	G -F-G-H50
017022	+0610	0472	0267	0042	0047	3417	-111	----	1111	D R 7 *10
017023	+0614	0337	4665	0360	0522	5417	1-11	----	1111	C4- C ER=0
017024	+0620	0771	0155	4623	0754	7017	111-	----	1111	G A -SG= 0
017025	+0624	1107	0127	4661	4630	6417	11-1	----	1111	IGAW- -X O
017026	+0630	4631	0651	0140	0404	1417	--11	----	1111	-YF(A5DDLO
017027	+0634	0152	0054	0136	0133	7417	1111	----	1111	A) =A3A0 O
017030	+0640	0133	0140	0723	0053	7417	1111	----	1111	AOA5GS % 0
017031	+0644	0130	0315	0704	0131	7417	1111	----	1111	AXCMGDAY O
017032	+0650	0126	0212	0075	0144	7417	1111	----	1111	AVBJ A9 O
017033	+0654	0060	0146	0532	0160	7417	1111	----	1111	A-EZA O
017034	+0660	0056	4723	0172	1011	5417	1-11	----	1111	,*SA HI=0
017035	+0664	4615	4666	4667	4670	4017	1----	----	1111	-M- - - 50
017036	+0670	4671	4672	4673	4674	0017	----	----	1111	- - - - 0
017037	+0674	4675	4676	4677	4700	0017	----	----	1111	- - - * 0
017040	+0700	4701	0440	0275	4704	0417	----1	----	1111	*AD5B *DDO
017041	+0704	4705	4706	4707	4710	0017	----	----	1111	*E*F*G*H O
017042	+0710	0735	4712	4713	4714	2017	-1--	----	1111	G2*J*K*LPO
017043	+0714	4715	4716	1102	0126	0417	----1	----	1111	*M*NIBAVDO
017044	+0720	0417	0476	0160	4776	7017	111-	----	1111	DDO A * 0
017045	+0724	0010	4726	4727	4730	6017	11--	----	1111	H*V*W*X O
017046	+0730	0147	0210	0121	0514	3417	-111	----	1111	A*BHAQEL10
017047	+0734	0031	0053	0001	4740	7417	1111	----	1111	Y \$ A*5 O
017050	+0740	4741	4742	4743	4744	0017	----	----	1111	*6*7*8*9 O
017051	+0744	0304	0343	0126	0014	3417	-111	----	1111	CDC8AV L10
017052	+0750	0001	0001	0001	4754	7417	1111	----	1111	A A A** 0
017053	+0754	4755	4756	4757	0577	0017	----	----	1111	* *,*.E O
017054	+0760	0001	4762	4763	4764	6017	11--	----	1111	A* * * 0
017055	+0764	4765	4766	4767	1020	0017	----	----	1111	* * * HP O
017056	+0770	0434	4772	0437	1171	6417	11-1	----	1111	D1* D4I O
017057	+0774	4775	0670	5224	0673	4417	1--1	----	1111	* F JTF 90
017060	+1000	5001	0663	0036	0036	5417	1-11	----	1111	/AF 3 3=0
017061	+1004	0026	0013	0117	5010	7417	1111	----	1111	V KAO/H O
017062	+1010	1144	5012	5013	0722	2017	-1--	----	1111	I9/J/KGRPD
017063	+1014	0145	0673	5017	0671	7017	111-	----	1111	A+F /DF O
017064	+1020	0673	0673	0004	0710	7417	1111	----	1111	F F DGH O
017065	+1024	0025	5026	0664	0131	6417	11-1	----	1111	U/VF AY O
017066	+1030	5031	0663	0077	0673	5417	1-11	----	1111	/YF F =0
017067	+1034	5035	5036	0722	0125	4417	1--1	----	1111	/2/3GRAU90
017070	+1040	0005	0062	0673	0673	7417	1111	----	1111	E F F O
017071	+1044	0673	0673	0050	5050	7417	1111	----	1111	F F /// O
017072	+1050	0663	0014	0673	0673	3417	-111	----	1111	F LF F 10
017073	+1054	5055	0666	0673	5060	5417	1-11	----	1111	/ F F / =0
017074	+1060	0667	5062	0667	0673	2417	-1-1	----	1111	F / F F TO
017075	+1064	0673	0673	0673	5070	7417	1111	----	1111	F F F / O
017076	+1070	0633	5072	0633	0010	2417	-1-1	----	1111	FO/ FO HTO
017077	+1074	0121	5076	0652	5100	6417	11-1	----	1111	AQ/ F) ( O
017100	+1100	0661	5102	0032	5104	2417	-1-1	----	1111	F (B Z (OTO
017101	+1104	5105	5106	5107	5110	0017	----	----	1111	(E(F(G(H O
017102	+1110	5111	5112	5113	5114	0017	----	----	1111	(I(J(K(L O
017103	+1114	5115	5116	5117	5120	0017	----	----	1111	(M(N(O(P O
017104	+1120	5121	5122	0226	5124	0417	----1	----	1111	(Q(RBV(TOO
017105	+1124	5125	0724	0673	0001	1417	--11	----	1111	(UGTF ALD
017106	+1130	5131	5132	0725	0736	4417	1--1	----	1111	(Y(ZGUC390
017107	+1134	0053	0673	0673	0041	3417	-111	----	1111	%F F 610

RA = MST,6,7,11,12,13,14.  
0000000 CM 16.23.30.

EXPRESS 11  
79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.52. PAGE 30  
NOS 1-8J03T/R20. NOS 1.4 STUDY DUMP - MASS STORAGE

017110 +1140 5141 5142 0567 5144 4417 1--1 ---- 1111 (6(7E (990  
017111 +1144 5145 0711 0322 0673 1417 --11 ---- 1111 (+GICRF LO  
017112 +1150 5151 5152 5153 5154 4017 1---- ---- 1111 ((((((=-50  
017113 +1154 5155 5156 5157 5160 0017 ---- ---- 1111 ( ( ( ( 0  
017114 +1160 5161 5162 5163 5164 0017 ---- ---- 1111 ( ( ( ( 0  
017115 +1164 5165 5166 5167 5170 0017 ---- ---- 1111 ( ( ( ( 0  
017116 +1170 5171 5172 5173 5174 0017 ---- ---- 1111 ( ( ( ( 0  
017117 +1174 5175 5176 5177 5200 0017 ---- ---- 1111 ( ( ( ) 0  
017120 +1200 5201 5202 5203 5204 0017 ---- ---- 1111 (A)(B)(C)(D) 0  
017121 +1204 5205 5206 5207 5210 0017 ---- ---- 1111 (E)(F)(G)(H) 0  
017122 +1210 5211 5212 5213 5214 0017 ---- ---- 1111 (I)(J)(K)(L) 0  
017123 +1214 5215 5216 1123 0751 0417 ----1 ---- 1111 (M)(N)(O)(P) 0  
017124 +1220 0054 0220 0130 0673 7417 1111 ---- 1111 =BPAXF 0  
017125 +1224 5251 0133 0164 0261 3417 -111 ---- 1111 ((A0A B 10  
017126 +1230 0032 0000 0000 0000 4010 1--- ---- 1--- Z 5H  
017127 +1234 0000 1137 0314 5455 3407 -111 ---- -111 I4CL= 1G  
017130 +1240 5241 0645 0235 0377 5417 1-11 ---- 1111 (6F+B2C =0  
017131 +1244 0076 0102 0077 0350 7417 1111 ---- 1111 AB C/ 0  
017132 +1250 0001 5252 5260 0024 4417 1--1 ---- 1111 A))) T90  
017133 +1254 0154 0122 0011 0002 7417 1111 ---- 1111 A=AR I B 0  
017134 +1260 5334 0154 0650 0111 3417 -111 ---- 1111 \$1A=F/A110  
017135 +1264 0217 0112 0115 0220 7417 1111 ---- 1111 B0AJAHBP 0  
017136 +1270 0121 0116 0115 0120 7417 1111 ---- 1111 AQANAHAP 0  
017137 +1274 0122 0126 0125 0126 7417 1111 ---- 1111 ARAVAUAV 0  
017140 +1300 0135 0133 0136 0136 7417 1111 ---- 1111 A2A0A3A3 0  
017141 +1304 1163 5306 0725 0134 6417 11-1 ---- 1111 I \$FGUA1 0  
017142 +1310 0027 0136 0137 0203 7417 1111 ---- 1111 WA3A4BC 0  
017143 +1314 0031 0203 0203 0203 7417 1111 ---- 1111 YBCBCBC 0  
017144 +1320 0136 0137 0141 0143 7417 1111 ---- 1111 A3A4A6A8 0  
017145 +1324 0144 5326 0540 1114 6417 11-1 ---- 1111 A9\$VESIL 0  
017146 +1330 0174 0357 0054 0027 7417 1111 ---- 1111 A C. = W 0  
017147 +1334 5402 5336 0224 0054 2417 -1-1 ---- 1111 =B\$3BT =TO  
017150 +1340 0570 0273 5343 5344 7017 111- ---- 1111 E B \$8\$9 0  
017151 +1344 5345 5346 5347 5350 0017 ---- ---- 1111 \$+\$-\$+\$ / 0  
017152 +1350 0337 0672 0653 0273 3417 -111 ---- 1111 C4F F\$B 1U  
017153 +1354 0211 0106 0056 0041 7417 1111 ---- 1111 BIAF , 6 0  
017154 +1360 1004 5362 5363 0760 6017 11-- ---- 1111 HD\$ \$ G 0  
017155 +1364 0205 0272 5367 0467 7017 111- ---- 1111 BEB \$ D 0  
017156 +1370 5371 0467 5373 5374 5017 1-1- ---- 1111 \$ D \$ \$ / 0  
017157 +1374 5375 5376 5377 5400 0017 ---- ---- 1111 \$ \$ \$ = 0  
017160 +1400 5401 0555 5457 0147 0417 ----1 ---- 1111 =AE =.A\*DO  
017161 +1404 0065 0110 0223 0105 7417 1111 ---- 1111 AHBSAE 0  
017162 +1410 0053 5412 0312 0007 6417 11-1 ---- 1111 \$=JCG 0  
017163 +1414 0167 0033 0443 5420 7417 1111 ---- 1111 A 0D8=P 0  
017164 +1420 0646 0267 0026 0117 3417 -111 ---- 1111 F-B VA010  
017165 +1424 0162 0165 0173 0572 7417 1111 ---- 1111 A A A E 0  
017166 +1430 0155 0162 0162 0127 7417 1111 ---- 1111 A A A AW 0  
017167 +1434 0057 0171 0044 0035 7417 1111 ---- 1111 .A 9 2 0  
017170 +1440 0174 0704 0040 0357 7417 1111 ---- 1111 A GD 5C. 0  
017171 +1444 1141 0365 1147 0004 7417 1111 ---- 1111 I6C I+ 0 0  
017172 +1450 0005 5452 0337 0122 6417 11-1 ---- 1111 E=)C4AR 0  
017173 +1454 0007 5456 5715 5472 4017 1--- ---- 1111 G=,.M= 50  
017174 +1460 0005 0004 0366 0054 7417 1111 ---- 1111 E DC = 0  
017175 +1464 5465 0566 5467 1176 5017 1-1- ---- 1111 = E = I / 0  
017176 +1470 0226 0715 5536 0316 6417 11-1 ---- 1111 BVGM 3CN 0  
017177 +1474 0112 0337 0056 0236 7417 1111 ---- 1111 AJC4 ,B3 0  
017200 +1500 0535 0431 0313 0241 7417 1111 ---- 1111 E2DYCKB6 0

017201	+1504	0244	0175	0011	0221	7417	1111	----	1111	B9A IBQ O
017202	+1510	0043	0277	0020	0137	7417	1111	----	1111	8B PA4 O
017203	+1514	0312	0026	0150	0042	7417	1111	----	1111	CJ VA/ 7 O
017204	+1520	0120	0326	0073	1100	7417	1111	----	1111	APCV I O
017205	+1524	5525	0415	5527	0332	5017	1-1-	----	1111	UDM WCZ/O
017206	+1530	0114	0002	5533	0603	7017	111-	----	1111	AL B OFC O
017207	+1534	0017	0140	5566	0261	6417	11-1	----	1111	0A5 B O
017210	+1540	0444	0043	0032	0157	7417	1111	----	1111	D9 8 ZA. O
017211	+1544	0016	0061	0007	0114	7417	1111	----	1111	N GAL O
017212	+1550	5551	0144	0707	0027	5417	1-11	----	1111	(A9GG M=O
017213	+1554	0162	0113	0030	0045	7417	1111	----	1111	A AK X + O
017214	+1560	0046	0004	0104	0000	7016	111-	----	111-	- DAD N
017215	+1564	0216	0273	5645	0261	6417	11-1	----	1111	BNB ,+B O
017216	+1570	0116	0274	0172	0157	7417	1111	----	1111	ANB A A. O
017217	+1574	0223	0063	0205	5600	7417	1111	----	1111	BS BE, O
017220	+1600	1105	0123	0163	0104	3417	-111	----	1111	IEASA AD10
017221	+1604	0251	0265	0243	0343	7417	1111	----	1111	B(B B8C8 O
017222	+1610	0306	0051	0155	0100	7417	1111	----	1111	CF (A A O
017223	+1614	0030	0035	0050	0021	7417	1111	----	1111	X 2 / O O
017224	+1620	0120	5622	1054	0242	6417	11-1	----	1111	AP,RH=B7 O
017225	+1624	5625	5626	0335	0106	4417	1--1	----	1111	,U,VC2AF90
017226	+1630	0001	0007	0036	0512	7417	1111	----	1111	A G JFJ O
017227	+1634	0653	0002	0117	5640	7417	1111	----	1111	F\$ BAO,5 O
017230	+1640	0610	0150	0006	5644	3417	-111	----	1111	FHA/ F,910
017231	+1644	0147	5705	0004	0014	1417	--11	----	1111	A*.E D LLO
017232	+1650	0331	5652	0636	0003	6417	11-1	----	1111	CY, )F3 C O
017233	+1654	0143	0115	0046	0177	7417	1111	----	1111	ABAM -A O
017234	+1660	0177	0120	0707	0040	7417	1111	----	1111	A APGG 5 O
017235	+1664	0040	0124	0036	0454	7417	1111	----	1111	5AT 3D= O
017236	+1670	0044	0712	0044	0044	7417	1111	----	1111	9CJ 9 9 O
017237	+1674	0532	0065	0170	0463	7417	1111	----	1111	EZ A D O
017240	+1700	0372	0040	0271	5704	7417	1111	----	1111	C 5B .D O
017241	+1704	0606	5706	4543	0370	0417	----	----	1111	FF.F+8C DD
017242	+1710	0226	0164	0174	0054	7417	1111	----	1111	BVA A = O
017243	+1714	0000	5716	0355	0757	0407	----	----	-111	.NC G.DG
017244	+1720	5723	0651	0263	5724	7017	111-	----	1111	.SF(B .T O
017245	+1724	0613	0217	0106	5730	3417	-111	----	1111	FKBOAF .X10
017246	+1730	5731	5732	5733	0315	0017	----	----	1111	.Y.Z.OCM O
017247	+1734	5735	5736	0706	0003	4417	1--1	----	1111	.2.3GF C90
017250	+1740	0001	0530	5743	5744	7017	111-	----	1111	AEX.8.9 O
017251	+1744	5745	5746	5747	5750	0017	----	----	1111	.+.-.+./ O
017252	+1750	5751	5752	5753	0445	0017	----	----	1111	.(.).\$D+ O
017253	+1754	5755	0177	5757	5760	5017	1-1-	----	1111	. A ... /0
017254	+1760	5761	5762	0316	0673	0417	----	----	1111	. . CNF DD
017255	+1764	0001	5766	0700	0225	6417	11-1	----	1111	A. G BU O
017256	+1770	5771	5772	0725	0001	4417	1--1	----	1111	. . GU A90
017257	+1774	0001	0001	0001	0001	7417	1111	----	1111	A A A A O
017260	+2000	0001	0001	0001	0000	7016	111-	----	111-	A A A N
017261	+2004	0000	0000	0000	0000	0000	----	----	----	
-----										
017403	+2514	0000	0000	0000	3777	0001	----	----	----	4 A
017404	+2520	0000	0000	0000	0000	0000	----	----	----	
-----										
017524	+3220	0000	0000	3777	3777	0003	----	----	--11	4 4 C

RA = MST,6,7,11,12,13,14.  
0000000 CM

16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSDI - V2.0 79/10/30. 10.59.52.

PAGE 32

NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP - MASS STORAGE

```
NUMBER OF TRACKS          TDGL 017530 3150          Y/ F25 C   ALLOCATION FLAGS          DILL 017543 0000          B
RESERVED                    0000
LENGTH OF TRT              0632
FIRST AVAIL TRACK PTR      4066
NUM AVAILABLE TRACKS      0365
FLAGS / INTERLOCK         ACGL 017531 0000          JS A
DA ECS CHAIN FIRST TRACK  0000
DIRECT ACCESS FILE CNT    1223
FIRST TRACK IQFT          0000
REDEFINITION STATUSES    01
PF UTILITY INTERLOCK      00
ECS ADDRESS MST/TRT      SDGL 017532 00000000
ECS UPDATE COUNT          0000000000
MACHINE MASK INTERLOCK    00
FIRST TRACK IAFP         ALGL 017533 4043          585 59 5
LABEL TRACK               4000
FIRST TRACK PERMITS       4044
NUMBER CATALOG TRACKS    0040
FIRST TRACK DAT          0000
FAMILY OR PACK NAME      PFGL 017534 16172303142310  NOSCLSH9 A
DEVICE NUMBER            44
RESERVED                   00
REL UNIT MULTIUNIT DEV   0
NUM UNIT MULTIUNIT DEV   1
USER NUM PRIVATE PACK    PUGL 017535 00000000000000          APT
DEVICE MASKS              012024
FLAGS AND DAT INDEX      MDGL 017536 1000          H 88DI GF
FT-HT FLAG */* SECTOR LIMIT 4343
DRIVER NAME               0411
0 RESERVED FOR PPR USE    0000
SECTOR LIMIT              0706
RESERVED                   R1GL 017537 00000000000000000000
GLOBAL INSTAL AREA       ISGL 017540 00000000000000000000
ACTIVITY COUNT           I2GL 017541 00000000000000000000
UNIT INTERLOCKS          DALL 017542 0000          F
CURRENT POSITION           0000
NEXT BEST POSITION         6506
RESERVED                   7777
RESERVED                   0000
```

TRACK RESERVATION TABLE

```
017550 +0000 4001 4002 4003 4005 4017 1--- ---- 1111 5A5B5C5E50
017551 +0004 3777 4006 4007 4010 0017 ---- ---- 1111 4 5F5G5H 0
017552 +0010 4011 4012 4013 4014 0017 ---- ---- 1111 515J5K5L 0
017553 +0014 4015 4016 4017 4020 0017 ---- ---- 1111 5M5N5O5P 0
017554 +0020 4021 4022 4023 4024 0017 ---- ---- 1111 5Q5R5S5T 0
017555 +0024 4025 4026 4027 4030 0017 ---- ---- 1111 5U5V5W5X 0
017556 +0030 4031 4032 4033 4034 0017 ---- ---- 1111 5Y5Z5051 0
017557 +0034 4035 4036 4037 4040 0017 ---- ---- 1111 52535455 0
017560 +0040 4041 4042 0000 4073 0417 ---1 ---- 1111 5657 5 00
017561 +0044 0227 0005 4047 4050 7017 111- ---- 1111 BW E5*5/ 0
017562 +0050 0576 0047 0054 0101 3417 -111 ---- 1111 E * =AA10
017563 +0054 0102 0437 0131 0125 7417 1111 ---- 1111 ABD4AYAU 0
017564 +0060 0005 0077 4063 0005 7017 111- ---- 1111 E 5 E 0
017565 +0064 0052 0021 0133 0116 7417 1111 ---- 1111 J QAQAN 0
017566 +0070 4071 4072 0145 4241 4017 1--- ---- 1111 5 5 A+7650
```

017567	+0074	0250	4076	4077	4100	6017	11--	----	1111	B/5 5 6 0
017570	+0100	0010	0324	0126	0134	3417	-111	----	1111	HCTAVA110
017571	+0104	4105	4106	4107	4110	4017	1----	----	1111	6E6F6G6H50
017572	+0110	0464	4112	4113	4114	2017	-1--	----	1111	D 6J6K6LPO
017573	+0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P 0
017574	+0120	0620	0031	0457	0002	3417	-111	----	1111	FP YD. 810
017575	+0124	0457	0335	0134	0006	7417	1111	----	1111	D.C2A1 F 0
017576	+0130	0325	0256	0457	0335	7417	1111	----	1111	CUB,D.C2 0
017577	+0134	4135	4136	4137	4140	4017	1--	----	1111	6263646550
017600	+0140	0464	4142	4143	4144	2017	-1--	----	1111	D 676869PO
017601	+0144	4145	0464	4147	4150	1017	--1-	----	1111	6+D 6+6/HO
017602	+0150	4151	4152	0464	0005	0417	---1	----	1111	6(6)D E00
017603	+0154	4155	4156	4157	4160	4017	1---	----	1111	6 6,6.6 50
017604	+0160	0464	4162	4163	4164	2017	-1--	----	1111	D 6 6 6 PO
017605	+0164	4165	0464	3777	4170	0417	---1	----	1111	6 D 4 6 DO
017606	+0170	4171	4172	4173	0464	0017	----	----	1111	6 6 6 D 0
017607	+0174	0011	4176	4177	4200	6017	11--	----	1111	I6 6 7 0
017610	+0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D 0
017611	+0204	4205	4206	4207	4210	0017	----	----	1111	7E7F7G7H 0
017612	+0210	4211	4212	4215	3777	0017	----	----	1111	7I7J7M4 0
017613	+0214	3777	0244	3777	3777	0017	----	----	1111	4 894 4 0
017614	+0220	3777	3777	3777	0002	0417	---1	----	1111	4 4 4 800
017615	+0224	4225	4226	4227	4230	4017	1---	----	1111	7U7V7W7X50
017616	+0230	4231	4232	4233	4234	0017	----	----	1111	7Y7Z7071 0
017617	+0234	4235	0236	0303	0005	1417	--11	----	1111	72B3CC ELO
017620	+0240	0106	4326	4243	0403	5017	1-1-	----	1111	AF8V78DC/0
017621	+0244	4245	0255	4247	4250	5017	1-1-	----	1111	7+B 7+7//0
017622	+0250	4251	4252	4253	4254	0017	----	----	1111	7(7)7\$7- 0
017623	+0254	4255	4257	3777	4260	0017	----	----	1111	7 7.4 7 0
017624	+0260	4261	4262	4263	4264	0017	----	----	1111	7 7 7 7 0
017625	+0264	4265	4266	4267	4270	0017	----	----	1111	7 7 7 7 0
017626	+0270	4271	0143	4320	4274	1417	--11	----	1111	7 A88P7 LO
017627	+0274	0403	0131	0116	0454	3417	-111	----	1111	DCAYAND=10
017630	+0300	0127	0166	0072	0127	7417	1111	----	1111	AWA AW 0
017631	+0304	0071	4306	0034	0526	6417	11-1	----	1111	8F 1EV 0
017632	+0310	0115	0130	0506	0161	7417	1111	----	1111	AMAXEFA 0
017633	+0314	4315	4316	0136	0065	4417	1--1	----	1111	8M8NA3 90
017634	+0320	4325	0002	0266	0007	3417	-111	----	1111	8U 8B G10
017635	+0324	0017	0620	4344	4330	4417	1--1	----	1111	0FP898X90
017636	+0330	0357	0130	0000	0506	2415	-1-1	----	11-1	C.AX EFTM
017637	+0334	0100	0006	0462	0000	7016	111-	----	111-	A FD N
017640	+0340	0151	0000	0000	0000	4010	1---	----	1---	A1 5H
017641	+0344	4351	0166	0573	0106	3417	-111	----	1111	8(A E AF10
017642	+0350	0125	4376	0166	0057	5417	1-11	----	1111	AUB A .=0
017643	+0354	0103	4356	4357	4360	6017	11--	----	1111	AC8,8.8 0
017644	+0360	4361	0322	0155	0047	1417	--11	----	1111	8 CRA *LO
017645	+0364	0001	0034	0170	0133	7417	1111	----	1111	A 1A AO 0
017646	+0370	0073	3777	0120	0154	5417	1-11	----	1111	4 APA==0
017647	+0374	0001	0266	4525	0214	6417	11-1	----	1111	AB +UBL 0
017650	+0400	0002	0002	0002	0102	7417	1111	----	1111	B B BAB 0
017651	+0404	0155	0002	0002	0002	7417	1111	----	1111	A B B B 0
017652	+0410	0002	0114	0002	0117	7417	1111	----	1111	BAL BAO 0
017653	+0414	0007	0004	0003	0002	7417	1111	----	1111	C D C B 0
017654	+0420	0002	0214	4423	4424	7017	111-	----	1111	BRL9S9T 0
017655	+0424	0165	0001	0001	0002	3417	-111	----	1111	A A A 810
017656	+0430	0002	0007	4433	4434	7017	111-	----	1111	B G9091 0
017657	+0434	4435	4436	4437	4440	0017	----	----	1111	92939495 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.52. PAGE 34  
NDS 1-8J03T/R2B. NDS 1.4 STUDY DUMP - MASS STORAGE

017660	+0440	4441	4442	4443	4444	0017	----	----	1111	96979899 0
017661	+0444	4445	4446	4447	4450	0017	----	----	1111	9+9-9*9/ 0
017662	+0450	4451	4452	4453	4454	0017	----	----	1111	9(9)9#9= 0
017663	+0454	0111	0230	0172	4460	3417	-111	----	1111	A18XA 9 10
017664	+0460	0275	0265	3777	0163	2417	-1-1	----	1111	B B 4 A TO
017665	+0464	4465	4466	4467	0130	4017	1---	----	1111	9 9 9 AX50
017666	+0470	0167	4507	0222	0343	5417	1-11	----	1111	A +GBRC8=0
017667	+0474	4505	0262	6673	4471	3417	-111	----	1111	+EB 9 10
017670	+0500	4774	4474	0173	6644	7417	1111	----	1111	* 9 A 9 0
017671	+0504	0174	4506	4511	4512	4017	1----	----	1111	A +F+I+J50
017672	+0510	6065	4513	4701	4514	4017	1----	----	1111	+K*A+L50
017673	+0514	4515	4700	0164	4522	1017	--1-	----	1111	+M* A +RHQ
017674	+0520	0214	0140	5104	0004	6417	11-1	----	1111	BLA5(D D 0
017675	+0524	0033	4640	0433	0273	5417	1-11	----	1111	0-500B =0
017676	+0530	4531	4532	4533	0130	4017	1----	----	1111	+Y+Z+OAX50
017677	+0534	0256	0120	0374	0373	7417	1111	----	1111	B,APC C 0
017700	+0540	4541	4542	4543	4544	4017	1----	----	1111	+6+7+8+950
017701	+0544	4545	4546	4550	3777	0017	----	----	1111	+++ -+/4 0
017702	+0550	0351	0270	4553	0403	3017	-11-	----	1111	C(8 +#DCXQ
017703	+0554	0104	0242	4557	4560	7017	111-	----	1111	ADB7+.* 0
017704	+0560	0343	0450	0162	0027	3417	-111	----	1111	C8D/A W10
017705	+0564	4565	4566	4567	4570	4017	1----	----	1111	+ + + + 50
017706	+0570	4571	4572	4573	4574	0017	----	----	1111	+ + + + 0
017707	+0574	4575	4576	4577	4600	0017	----	----	1111	+ + + - 0
017710	+0600	4601	4602	4603	4604	0017	----	----	1111	-A-B-C-D 0
017711	+0604	4605	4606	4607	4610	0017	----	----	1111	-E-F-G-H 0
017712	+0610	4611	4612	4613	4614	0017	----	----	1111	-I-J-K-L 0
017713	+0614	4615	4616	4617	4620	0017	----	----	1111	-M-N-O-P 0
017714	+0620	0424	0400	0050	0016	3017	-11-	----	1111	DTO / NXO
017715	+0624	0016	4642	4627	4630	1017	--1-	----	1111	N-7-W-XHO
017716	+0630	0546	0055	0020	0023	3417	-111	----	1111	E- P S10
017717	+0634	0034	0016	0033	0032	7417	1111	----	1111	I N O Z 0
017720	+0640	5030	0046	4517	0224	2417	-1-1	----	1111	/X -+0BTTO
017721	+0644	0026	0033	3777	0021	6417	11-1	----	1111	V 04 Q 0
017722	+0650	0041	0241	0024	0016	7417	1111	----	1111	686 T N 0
017723	+0654	4655	4656	4657	4660	4017	1----	----	1111	- , - . - 50
017724	+0660	4661	4662	0640	0044	0417	---1	----	1111	- - F5 900
017725	+0664	0021	0015	0016	0001	7417	1111	----	1111	Q M N A 0
017726	+0670	0666	0536	0337	0001	7417	1111	----	1111	F E3C4 A 0
017727	+0674	3777	0062	0110	0104	3417	-111	----	1111	4 AHAD10
017730	+0700	4734	4746	0703	4704	1417	--11	----	1111	*1*-GC#DLO
017731	+0704	0234	0001	0104	0364	3417	-111	----	1111	D1 AADC 10
017732	+0710	0173	0434	0412	0204	7417	1111	----	1111	A D1DJBD 0
017733	+0714	0001	4716	4717	4720	6017	11--	----	1111	A*N#O*P 0
017734	+0720	0063	4722	4723	0415	2017	-1--	----	1111	*R*SDMPO
017735	+0724	0102	0276	4727	4730	5017	1-1-	----	1111	ABB *W*X/O
017736	+0730	4731	4732	0244	0045	0417	---1	----	1111	*Y*ZB9 +00
017737	+0734	4735	4750	4737	4740	1017	--1-	----	1111	*2*/#4*5HO
017740	+0740	4742	3777	0063	3777	0017	----	----	1111	*74 4 0
017741	+0744	0105	0011	4762	5077	6417	11-1	----	1111	AE I# / 0
017742	+0750	0663	0337	4761	4771	3417	-111	----	1111	F C4* * 10
017743	+0754	0021	5064	0354	3777	5017	1-1-	----	1111	Q/ C=4 /0
017744	+0760	5150	5124	5027	5011	4017	1----	----	1111	(/(T/W/150
017745	+0764	0045	0572	0240	5214	7017	111-	----	1111	+E B5)L 0
017746	+0770	4777	5230	5640	0670	0417	---1	----	1111	* }X,5F 00
017747	+0774	5002	0312	3777	0472	2017	-1--	----	1111	/RCJ4 D PO
017750	+1000	3777	5231	5101	5005	0417	---1	----	1111	4 }Y(A/EDD



017751	+1004	0001	5006	5007	0063	4017	1----	1111	A/F/G 50
017752	+1010	0127	5023	0004	0003	5417	1-11	1111	AW/S D C=0
017753	+1014	5015	5016	5017	0140	4017	1----	1111	/M/N/OA550
017754	+1020	0005	0345	0256	4755	7017	111-	1111	EC+B,* 0
017755	+1024	0137	0031	5126	5031	6017	11--	1111	A4 Y(V/Y 0
017756	+1030	5172	5035	0556	0005	1417	--11	1111	( /ZE, ELO
017757	+1034	0022	0064	0622	0262	5417	1-11	1111	R FRB =0
017760	+1040	0145	0177	5043	5044	7017	111-	1111	A+A /8/9 0
017761	+1044	5045	0063	5047	5050	1017	--1-	1111	/+ /*/HO
017762	+1050	5051	5052	0314	0011	0417	---1	1111	/(/)CL ID0
017763	+1054	0011	0010	0043	5060	7017	111-	1111	I H B/ 0
017764	+1060	5062	0437	0606	0573	2417	-1-1	1111	/ D4FFE TU
017765	+1064	5111	6061	0061	5074	1417	--11	1111	(I / LO
017766	+1070	0302	0175	0176	0252	7017	111-	1111	CB A A B) 0
017767	+1074	5100	0332	0255	0045	3017	-11-	1111	( CZB +X0
017770	+1100	5112	5152	0001	0125	1417	--11	1111	(J())AAULO
017771	+1104	4763	0664	0377	0230	3417	-111	1111	* F C BX10
017772	+1110	0007	5240	5655	5115	4417	1--1	1111	G15, (M90
017773	+1114	0103	5131	5130	5120	5417	1-11	1111	AC(Y(X(P=0
017774	+1120	5637	0117	0103	5140	3417	-111	1111	,4A0AC(510
017775	+1124	0500	0373	5200	0110	2417	-1-1	1111	E C ) AHT0
017776	+1130	5132	0445	5133	5134	0017	----	1111	(ZD+(0(1 0
017777	+1134	0563	0054	5137	0201	3017	-11-	1111	E =(4BAX0
020000	+1140	5147	0075	0535	0325	3417	-111	1111	(+ E2CU10
020001	+1144	5154	0030	5153	0500	7017	111-	1111	(= X(1E 0
020002	+1150	5151	0646	5216	0364	0017	----	1111	((F-)NC 0
020003	+1154	5155	5156	5162	0112	0417	----1	1111	( (,( AJDO
020004	+1160	0007	0013	5026	0557	6417	11-1	1111	G K/VE. 0
020005	+1164	0151	0002	0000	0021	6415	11-1	11-1	A( B Q M
020006	+1170	0022	0042	5257	0675	6417	11-1	1111	R 7).F 0
020007	+1174	0003	0061	0302	0022	7417	1111	1111	C CB R 0
020010	+1200	0150	0622	0353	0103	3417	-111	1111	A/FRCSAC10
020011	+1204	0266	0007	0112	5704	7417	1111	1111	B GAJ.D 0
020012	+1210	0130	0103	7114	0020	7417	1111	1111	AXAC L P 0
020013	+1214	6071	0062	5227	0175	2417	-1-1	1111	IWA TO
020014	+1220	0176	0332	0255	5224	7417	1111	1111	A CZB IT 0
020015	+1224	5225	5226	0613	0034	0017	----	1111	)U)VEK 1 0
020016	+1230	0646	6064	0450	5057	1417	--11	1111	F- D//.LO
020017	+1234	0002	0366	0130	6730	5417	1-11	1111	9C AX X=0
020020	+1240	5243	0001	0344	5244	3017	-11-	1111	9B AC9)9X0
020021	+1244	5245	5663	5247	0311	1017	--1-	1111	)*, )*(IHO
020022	+1250	0666	5252	0300	0226	6417	11-1	1111	F )IC BV 0
020023	+1254	5255	0226	5507	5423	1017	--1-	1111	) BV G-SHO
020024	+1260	0260	0356	5263	5264	7017	111-	1111	B C,) ) 0
020025	+1264	5265	5266	5267	5270	0017	----	1111	) ) ) ) 0
020026	+1270	5271	5272	5273	0236	0017	----	1111	) ) ) B3 0
020027	+1274	0003	0004	5277	5300	7017	111-	1111	C D) \$ 0
020030	+1300	5301	5302	0464	0356	0417	----1	1111	\$A\$BD C,00
020031	+1304	5305	5306	5307	5310	4017	1----	1111	\$E\$F\$G\$H\$0
020032	+1310	0464	5312	5313	5314	2017	-1--	1111	D \$J\$K\$LP0
020033	+1314	5315	0464	0035	0035	1417	--11	1111	\$MD 2 2LO
020034	+1320	0066	0020	0110	5324	7417	1111	1111	PAH\$T 0
020035	+1324	0614	0005	0004	0011	3417	-111	1111	FL E D I10
020036	+1330	5331	0614	0302	0067	5417	1-11	1111	\$YFLCB =0
020037	+1334	0215	0056	5347	0002	7417	1111	1111	9M , \$* B 0
020040	+1340	5341	0354	5343	5344	5017	1-1-	1111	\$6C=\$8\$9/0
020041	+1344	5345	5346	0665	5351	0017	----	1111	\$+\$-F \$( 0

020042	+1350	6616	0014	0302	5354	1417	--11	----	1111	N LCB\$=LQ
020043	+1354	0614	5356	5357	5360	2017	-1--	----	1111	FL\$,\$. \$ PO
020044	+1360	5361	5362	5364	3777	0017	----	----	1111	\$ \$ \$ 4 0
020045	+1364	5365	5366	5367	5370	0017	----	----	1111	\$ \$ \$ \$ 0
020046	+1370	0471	5372	5373	5374	2017	-1--	----	1111	D \$ \$ \$ PO
020047	+1374	5375	0665	5377	0654	1017	--1-	----	1111	\$ F \$ F=HQ
020050	+1400	0530	5402	0052	5404	6417	11-1	----	1111	EX=B )=D 0
020051	+1404	0354	0006	5407	5410	3017	-11-	----	1111	C= F=G=HXO
020052	+1410	5411	5412	5413	5414	0017	----	----	1111	=I=J=K=L 0
020053	+1414	5415	5416	5417	5420	0017	----	----	1111	=M=N=O=P 0
020054	+1420	0112	0011	0216	5510	3017	-11-	----	1111	AJ IBN HXO
020055	+1424	0331	0043	5427	0232	7017	111-	----	1111	CY 8=WBZ 0
020056	+1430	5431	5432	5433	5434	4017	1----	----	1111	=Y=Z=0=150
020057	+1434	5435	5436	5437	5440	0017	----	----	1111	=2=3=4=5 0
020060	+1440	5441	5442	5443	5444	0017	----	----	1111	=6=7=8=9 0
020061	+1444	5445	5446	0437	0043	0417	----1	----	1111	=+-D4 8DO
020062	+1450	5451	5452	5453	5454	4017	1----	----	1111	=(=)-\$=50
020063	+1454	0342	0114	5457	5460	3017	-11-	----	1111	C7AL=-= XO
020064	+1460	0323	5462	5463	5464	2017	-1--	----	1111	CS= = = PO
020065	+1464	5465	5466	5467	5470	0017	----	----	1111	= = = = 0
020066	+1470	5471	5472	5473	5474	0017	----	----	1111	= = = = 0
020067	+1474	5475	5476	5477	5500	0017	----	----	1111	= = = = 0
020070	+1500	5501	5502	5503	5504	0017	----	----	1111	A B C D 0
020071	+1504	0570	5506	0233	0405	2017	-1--	----	1111	E FBODEPO
020072	+1510	5537	5512	0234	5514	2417	-1-1	----	1111	4 JBI LTO
020073	+1514	0145	0102	0103	5520	3417	-111	----	1111	A+ABAC P10
020074	+1520	0146	5522	0150	0105	2417	-1-1	----	1111	A- RA/AETO
020075	+1524	0203	0177	0102	5530	7417	1111	----	1111	BCA AB X 0
020076	+1530	0241	0106	0111	0112	3417	-111	----	1111	B6AFAIAJ10
020077	+1534	0330	5536	0151	5540	6017	11--	----	1111	CX 3A( 5 0
020100	+1540	5541	5626	0174	0026	1417	--11	----	1111	6,VA VLO
020101	+1544	5545	5546	5550	3777	4017	1----	----	1111	+ - /4 50
020102	+1550	5551	5552	5553	5554	0017	----	----	1111	( ) \$ = 0
020103	+1554	0416	3777	5557	5560	1017	--1-	----	1111	DN4 . HO
020104	+1560	5561	5562	5563	5564	0017	----	----	1111	0
020105	+1564	5565	0416	5567	5570	1017	--1-	----	1111	DN HO
020106	+1570	5571	5572	5573	5574	0017	----	----	1111	0
020107	+1574	5575	5576	5577	5600	0017	----	----	1111	0
020110	+1600	5601	5602	5603	5604	0017	----	----	1111	,A,B,C,D 0
020111	+1604	5605	0022	5607	5610	1017	--1-	----	1111	,E R,G,HHO
020112	+1610	5611	5612	5613	5614	0017	----	----	1111	,I,J,K,L 0
020113	+1614	5615	5616	5617	5620	0017	----	----	1111	,M,N,O,P 0
020114	+1620	5621	5622	5623	5624	0017	----	----	1111	,Q,R,S,T 0
020115	+1624	5625	0022	6021	0002	0417	----1	----	1111	,U R Q 800
020116	+1630	5631	5632	5633	5634	4017	1----	----	1111	,Y,Z,0,150
020117	+1634	5635	0062	0265	5656	1017	--1-	----	1111	,2 B ,HO
020120	+1640	6624	0112	4725	0000	3016	-11-	----	111-	TAJ*U XN
020121	+1644	5645	5646	5647	5650	4017	1----	----	1111	,+,-,*,/50
020122	+1650	5651	5652	5653	5654	0017	----	----	1111	,(,),\$,= 0
020123	+1654	0011	0402	5657	0464	0017	----	----	1111	IDB,,D 0
020124	+1660	5661	5662	5664	5660	0017	----	----	1111	, , , , 0
020125	+1664	5677	0151	5667	5670	3017	-11-	----	1111	, A(, , XO
020126	+1670	5671	5672	5673	0275	0017	----	----	1111	, , , B 0
020127	+1674	0071	0626	0000	5700	6015	11--	----	11-1	FW . M
020130	+1700	5073	0133	0000	3777	2015	-1--	----	11-1	/ A0 4 PM
020131	+1704	0225	0000	0000	0000	0010	----	----	1----	BU H
020132	+1710	5711	5712	5713	5714	4017	1----	----	1111	.I,J,K.L50

RA = MST,6,7,11,12,13,14. EXPRESS 11  
000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.52. PAGE 37  
NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP - MASS STORAGE

020133 +1714 5715 5716 5717 5720 0017 ----- 1111 .M.N.O.P O  
020134 +1720 5721 5722 5723 5724 0017 ----- 1111 .Q.R.S.T O  
020135 +1724 5725 5726 5727 5730 0017 ----- 1111 .U.V.W.X O  
020136 +1730 5731 5732 5733 5735 0017 ----- 1111 .Y.Z.O.2 O  
020137 +1734 3777 5736 5737 5740 0017 ----- 1111 4 .3.4.5 O  
020140 +1740 5741 5742 5743 5744 0017 ----- 1111 .6.7.8.9 O  
020141 +1744 5745 5746 5747 5750 0017 ----- 1111 .+.-.\*./ O  
020142 +1750 5751 5752 5753 5754 0017 ----- 1111 .(.).\$.= O  
020143 +1754 5755 5756 5757 5760 0017 ----- 1111 . . . . . O  
020144 +1760 5761 5762 5763 5764 0017 ----- 1111 . . . . . O  
020145 +1764 5765 5766 5767 5770 0017 ----- 1111 . . . . . O  
020146 +1770 0135 0000 0302 0565 1413 --11 ---- 1-11 A2 CBE LK  
020147 +1774 0620 5776 5777 6000 6017 11-- ---- 1111 FP. . O  
020150 +2000 6001 6002 6004 3777 0017 ----- 1111 A B D4 O  
020151 +2004 6005 6006 6007 0327 0017 ----- 1111 E F GCW O  
020152 +2010 6011 0176 0317 0204 5417 1-11 ---- 1111 IA COBD=O  
020153 +2014 0000 0524 6017 6020 3007 -11- ---- -111 ET O PXG  
020154 +2020 0153 6033 0222 0245 1417 --11 ---- 1111 A\$ OBRB+LO  
020155 +2024 0111 0024 0637 0001 7417 1111 ---- 1111 AI TF4 A O  
020156 +2030 0112 0162 0000 6050 6015 11-- ---- 11-1 AJA / M  
020157 +2034 0045 0000 0000 0000 4010 1-1- ---- 1-1- + 5H  
020160 +2040 0000 0000 0000 0000 0000 -----

-----  
020162 +2050 6056 0000 0315 0103 1413 --11 ---- 1-11 , CHA CLK  
020163 +2054 0111 0000 6131 3777 4013 1-1- ---- 1-11 AI Y4 5K  
020164 +2060 0014 6446 0000 0000 4014 1-1- ---- 11-- L - 5L  
020165 +2064 6651 5001 0000 0000 0014 ----- 11-- (/A L  
020166 +2070 0016 0572 0000 0000 4014 1-1- ---- 11-- NE 5L  
020167 +2074 0035 0326 0040 0004 7417 1111 ---- 1111 2CV 5 D O  
020170 +2100 0004 0000 0040 0005 5413 1-11 ---- 1-11 D 5 E=K  
020171 +2104 0036 0054 4623 0036 7417 1111 ---- 1111 3 --S 3 O  
020172 +2110 4624 0054 0000 0000 6014 11-- ---- 11-- -T = L  
020173 +2114 0000 0000 0000 0000 0000 -----  
020174 +2120 0000 0000 0027 0033 1403 --11 ---- -11 H OLC  
020175 +2124 0337 0021 0000 0000 6014 11-- ---- 11-- C4 Q L  
020176 +2130 0141 6164 0123 6134 5417 1-11 ---- 1111 A6 AS 1=O  
020177 +2134 0154 6136 6137 0205 2017 -1- ---- 1111 A= 3 4BEPO  
020200 +2140 0202 0122 0346 0045 7417 1111 ---- 1111 BBARC- + O  
020201 +2144 0030 0027 0044 0161 7417 1111 ---- 1111 X W 9A O  
020202 +2150 0006 0337 0011 0010 7417 1111 ---- 1111 FC4 I H O  
020203 +2154 0025 0453 0006 0167 7417 1111 ---- 1111 UD\$ FA O  
020204 +2160 0220 0052 0001 3777 7017 111- ---- 1111 BP ) A4 O  
020205 +2164 6267 0315 0422 0013 3417 -111 ---- 1111 CMDR K10  
020206 +2170 0012 0034 0071 0030 7417 1111 ---- 1111 J 1 X O  
020207 +2174 0012 0334 6177 6200 7017 111- ---- 1111 JC1 O  
020210 +2200 6201 6202 6203 6204 0017 ----- 1111 A B C D O  
020211 +2204 6205 6206 6207 6210 0017 ----- 1111 E F G H O  
020212 +2210 6211 6212 6213 6214 0017 ----- 1111 I J K L O  
020213 +2214 6215 6216 0463 0012 0417 ----1 ---- 1111 M ND JOO  
020214 +2220 0040 0020 0123 0557 7417 1111 ---- 1111 5 PASE. O  
020215 +2224 0005 0277 0053 0036 7417 1111 ---- 1111 EB \$ 3 O  
020216 +2230 0046 0433 0005 0011 7417 1111 ---- 1111 -DO E I O  
020217 +2234 0557 0074 0062 0423 7417 1111 ---- 1111 E. DS O  
020220 +2240 0040 0044 0014 0013 7417 1111 ---- 1111 5 9 L K O  
020221 +2244 0012 0013 0017 0027 7417 1111 ---- 1111 J K O W O  
020222 +2250 0012 0002 0053 0220 7417 1111 ---- 1111 J B \$BP O  
020223 +2254 0021 6256 0657 0025 6417 11-1 ---- 1111 Q ,F. U O

020224 +2260 0014 0012 0005 0021 7417 1111 ---- 1111 L J E Q O  
020225 +2264 0137 6266 0530 6320 6017 11-- ---- 1111 A4 EX P O  
020226 +2270 0141 0201 0175 0065 7417 1111 ---- 1111 A6BAA O  
020227 +2274 6275 6276 0171 0370 4417 1--1 ---- 1111 A C 90  
020230 +2300 0001 0111 0514 6304 7417 1111 ---- 1111 AAIEL D O  
020231 +2304 0253 0122 0000 3777 2015 -1-- ---- 11-1 B\$AR 4 PM  
020232 +2310 0000 0205 6313 6314 3007 -11- ---- -111 BE K LXG  
020233 +2314 6315 0070 6317 0132 1017 --1- ---- 1111 M OAZHO  
020234 +2320 6345 0267 0020 0000 3016 -11- ---- 111- +B P XN  
020235 +2324 0000 0000 0000 0120 0401 ----1 ---- -111 APDA  
020236 +2330 0551 0302 0532 0505 7417 1111 ---- 1111 E(CBEZEE O  
020237 +2334 0000 6336 0154 0056 2407 -1-1 ---- -111 3A- ,TG  
020240 +2340 0266 0131 0000 0002 6415 11-1 ---- 11-1 B AY 8 M  
020241 +2344 0112 6375 0000 5254 4415 1--1 ---- 11-1 AJ )=9M  
020242 +2350 0000 0000 6353 6354 1003 --1- ---- --11 \$ =HC  
020243 +2354 0145 6356 6357 6361 2017 -1-- ---- 1111 A+ , . PO  
020244 +2360 3777 6362 6363 6364 0017 ---- ---- 1111 4 O  
020245 +2364 6365 6366 6367 0311 0017 ---- ---- 1111 CI O  
020246 +2370 6371 6372 0133 0476 4417 1--1 ---- 1111 AOD 90  
020247 +2374 0000 6427 0131 6400 1407 --11 ---- -111 WAY LG  
020250 +2400 6401 6402 6403 6404 0017 ---- ---- 1111 A B C D O  
020251 +2404 0347 0102 0465 0044 3417 -111 ---- 1111 C\*ABD 910  
020252 +2410 0102 0160 0101 0066 7417 1111 ---- 1111 ABA AA O  
020253 +2414 3777 0064 0041 0210 3417 -111 ---- 1111 4 6BH10  
020254 +2420 6421 0200 6423 6424 5017 1-1- ---- 1111 QB S T/O  
020255 +2424 0670 6426 0372 6465 2017 -1-- ---- 1111 F VC PO  
020256 +2430 6431 0564 6433 6434 5017 1-1- ---- 1111 YE O 1/O  
020257 +2434 6435 6436 6437 0347 0017 ---- ---- 1111 2 3 4C\* O  
020260 +2440 6441 0316 0000 0000 4014 1--1 ---- 11-- 6CN 5L  
020261 +2444 4767 0000 6653 0000 4012 1--1 ---- 1-1- \* \$ 5J  
020262 +2450 0071 0001 0177 0001 7417 1111 ---- 1111 AA A O  
020263 +2454 0011 0107 0000 0000 6014 11-- ---- 11-- IAG L  
020264 +2460 0000 0000 0000 0000 0000 ---- ---- ----  
020265 +2464 0000 6506 0375 6470 1407 --11 ---- -111 FC LG  
020266 +2470 6471 6472 0422 6474 0417 ---1 ---- 1111 DR DO  
020267 +2474 6475 0205 6477 6500 1017 --1- ---- 1111 BE HO  
020270 +2500 0012 0366 0345 0366 3417 -111 ---- 1111 JC C+C 10  
020271 +2504 0346 0345 6610 0020 6417 11-1 ---- 1111 C-C+ H P O  
020272 +2510 0004 0040 0014 0002 7417 1111 ---- 1111 D S L B O  
020273 +2514 0162 6516 0160 0003 6417 11-1 ---- 1111 A NA C O  
020274 +2520 6521 0625 0161 0001 5417 1-11 ---- 1111 QFUA A=O  
020275 +2524 0011 0011 0410 0002 7417 1111 ---- 1111 I IDH B O  
020276 +2530 0015 0102 6533 0317 7017 111- ---- 1111 MAB OCO O  
020277 +2534 0027 0007 0007 0003 7417 1111 ---- 1111 W G G C O  
020300 +2540 0003 0015 0015 0015 7417 1111 ---- 1111 C M M M O  
020301 +2544 0015 6546 0157 6550 6417 11-1 ---- 1111 M -A. / O  
020302 +2550 0270 6552 6553 0061 2017 -1-- ---- 1111 B ) \$ PO  
020303 +2554 0027 3777 6557 0321 5017 1-1- ---- 1111 W4 .CQ/O  
020304 +2560 0642 0645 0001 6564 7417 1111 ---- 1111 F7F+ A O  
020305 +2564 6567 3777 3777 0063 0017 ---- ---- 1111 4 4 O  
020306 +2570 3777 0001 0001 0001 3417 -111 ---- 1111 4 A A A10  
020307 +2574 0001 0001 0001 0000 7016 111- ---- 111- A A A N  
020310 +2600 0035 0055 0151 0000 7016 111- ---- 111- 2 A( N  
020311 +2604 0001 0001 0001 0246 7417 1111 ---- 1111 A A AB- O  
020312 +2610 6635 0364 0463 0165 3417 -111 ---- 1111 2C D A 10  
020313 +2614 0001 6620 4625 0027 6417 11-1 ---- 1111 A P-U W O  
020314 +2620 0016 0000 0000 4770 0411 ---1 ---- 1--1 N \* DI

RA - MST,6,7,11,12,13,14. EXPRESS 11  
 0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.52. PAGE 39  
 NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

020315	+2624	6647	0000	0022	0142	1413	--11	----	1-11	*	RA7LK		
020316	+2630	0000	0115	0113	0516	3407	-111	----	-111		AMAKENIG		
020317	+2634	0000	6654	0331	0352	1407	--11	----	-111		=CYCJLG		
020320	+2640	0000	0000	0000	0015	0401	----	----	----		MDA		
020321	+2644	5065	0260	0000	6671	0015	----	----	11-1	/	B	M	
020322	+2650	0000	6670	0000	6645	0005	----	----	-1-1			+ E	
020323	+2654	6660	0105	0151	0432	3417	-111	----	1111		AEA(DZ10		
020324	+2660	6662	0421	6663	5350	2017	-1--	----	1111		DQ	\$/PO	
020325	+2664	0000	0000	0000	0042	0401	----	----	----		7DA		
020326	+2670	0301	0031	0000	4772	0015	----	----	11-1	CA	Y	* M	
020327	+2674	0000	0000	0000	0000	0000	----	----	----				
-----													
020332	+2710	0000	3777	0000	0000	0004	----	----	-1--	4		D	
020333	+2714	0000	0000	0000	0000	0000	----	----	----				
-----													
020336	+2730	5235	0000	0000	0000	0010	----	----	1---	12		H	
020337	+2734	0000	0000	0000	0000	0000	----	----	----				
-----													
020351	+3004	0000	0000	3777	0000	0002	----	----	--1-	4		B	
020352	+3010	0000	0000	0000	0000	0000	----	----	----				
-----													
020363	+3054	0000	0000	0000	3777	0001	----	----	----1	4		A	
020364	+3060	0000	0000	0000	0000	0000	----	----	----				
-----													
020373	+3114	7115	7116	7133	0000	0016	----	----	111-	M	N	O	N
020374	+3120	0000	0000	0000	0000	0000	----	----	----				
020375	+3124	3777	0000	0000	0000	0010	----	----	1---	4			H
020376	+3130	0000	0000	0000	7134	0001	----	----	----1			1	A
020377	+3134	7142	0000	0000	0000	0010	----	----	1---	7			H
020400	+3140	0000	0000	7144	0000	0002	----	----	--1-		9		B
020401	+3144	0263	0000	0000	0000	0010	----	----	1---	8			H

OVJ

## EVALUATION FORM

Course/Seminar Name \_\_\_\_\_ Date of Attendance From \_\_\_\_\_ To \_\_\_\_\_

Instructor \_\_\_\_\_ Location \_\_\_\_\_

Please place a rating in the box for each area and then add comments explaining your rating.

### *Rating Key*

<i>Excellent</i>	5
<i>Very Good</i>	4
<i>Good</i>	3
<i>Fair</i>	2
<i>Poor</i>	1

### **The Course/Seminar**

- \* How well did the course/seminar cover the stated objectives?
- \* To what degree will the course/seminar be helpful in improving on-the-job performance?
- \* To what extent were the handout materials and visuals helpful in aiding your understanding of the topic?
- \* What is your overall rating of the organization and content of the course/seminar?

### **The Instructor**

- \* How do you rate the instructor's knowledge of the material and ability to answer questions?
- \* How effective was the instructor in presenting the material in an understandable manner?
- \* How effective was the instructor in generating and sustaining interest in the course/seminar?
- \* How do you rate the instructor's responsiveness to the needs of participants?
- \* What is your overall rating of the instructor?

### **The Facilities**

- \* How do you rate the appropriateness of the facilities to the topic and means of presentation?
- \* To what extent were the facilities comfortable, well-lighted and heated or cooled?
- \* How convenient was the location of the facility?

**EVALUATION FORM**

Page 2

**General Comments**

\* What changes in the course/seminar would you make if you were the instructor?

\* Would you recommend this course/seminar to others in your company or department? Why?

\* Please list colleagues or associates who should receive advance notices of similar courses/seminars.

1) Name _____	2) Name _____
Organization _____	Organization _____
Address _____	Address _____
_____	_____
Bus. Tel. No. _____	Bus. Tel. No. _____

3) Name _____	4) Name _____
Organization _____	Organization _____
Address _____	Address _____
_____	_____
Bus. Tel. No. _____	Bus. Tel. No. _____

\* Should this course be offered at your company site? If so, who should be contacted to manage it?

\* If we may use your comments in future descriptions of the course/seminar, please sign below.

Signature \_\_\_\_\_

(Optional)

## PARTICIPANT INFORMATION FORM

In order for our seminars/courses to be most effective, they need to take into account the characteristics, needs and objectives of the people who attend them. The information asked for below will assist us in keeping our presentations relevant to the participants and in developing and scheduling new presentations that will meet participant needs. Please complete this form and leave it with the presenter at the next break.

Seminar/Course Title \_\_\_\_\_ Date of Presentation \_\_\_\_\_  
Name \_\_\_\_\_ Field or Type of Business \_\_\_\_\_  
Title \_\_\_\_\_ Years of Experience \_\_\_\_\_  
Business Address \_\_\_\_\_ Supervisor's Title \_\_\_\_\_  
\_\_\_\_\_ Last professional degree \_\_\_\_\_  
\_\_\_\_\_

List your three primary objectives in attending this seminar.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Will this course/seminar be credited toward certification/training requirements? \_\_\_\_\_

Rank in order of importance in your choice of this seminar session.

Instructor \_\_\_\_\_ Date \_\_\_\_\_ Location \_\_\_\_\_ Employer's Preference \_\_\_\_\_

Previous courses/seminars attended relating to this topic.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Topics for additional courses/seminars in which you would be interested.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_



**PARTICIPANT INFORMATION FORM**

Page 2

What trade journals/magazines do you regularly read or subscribe to in order to keep abreast in your profession?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

How did you become aware of this course/seminar?

Schedule/Catalogue \_\_\_\_\_,

Direct Mail Brochure \_\_\_\_\_,

Recommendations of Supervisor \_\_\_\_\_,

Recommendation of Colleague \_\_\_\_\_,

Corporate Training Department \_\_\_\_\_,

Other \_\_\_\_\_.

# COMMENT SHEET

MANUAL TITLE: NOS ANALYSIS

PUBLICATION NO.: FH4010-1

REVISION: C

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

This form is not intended to be used as an order blank. Control Data Corporation welcomes your evaluation of this manual. Please indicate any errors, suggested additions or deletions, or general comments below (please include page number references).

CUT ALONG LINE

AA3419 REV 4/79 PRINTED IN U.S.A.

NO POSTAGE STAMP NECESSARY IF MAILED IN U.S.A.

FOLD ON DOTTED LINES AND STAPLE

STAPLE

STAPLE

FOLD

FOLD



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

**BUSINESS REPLY MAIL**  
FIRST CLASS      PERMIT NO. 8241      MINNEAPOLIS, MINN.

POSTAGE WILL BE PAID BY

**CONTROL DATA CORPORATION**

National Coordinator  
Bloomington Facility (MNA02B)  
5001 West 80th Street  
Bloomington, Minnesota 55437  
Attn: Curtis Vicha




CUT ALONG LINE

FOLD

FOLD

# CONTROL DATA SEMINARS

 an education service of  
CONTROL DATA CORPORATION

CORPORATE HEADQUARTERS  
P.O. BOX 0  
MINNEAPOLIS, MINNESOTA 55440