

.REM -

IDENTIFICATION

PRODUCT CODE: AC-E890C-MC
PRODUCT NAME: CXICBCO ICR-11 MODULE
PRODUCT DATE: SEPTEMBER 1978
MAINTAINER: DEC/X11 SUPPORT GROUP

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1. ABSTRACT

ICB IS AN ICMOD THAT EXERCISES ICR11 CONTROLLER AND FILE BOX. IT WILL DO CSR & ADDR READ AND WRITES CHECK FOR INTERRUPT CAPABILITY TIPS AND CHECK REMOTE TTY DATA LOOP BACK. IT IS ASSUMED TTY SHORTING PLUG IS IN REMOTE END (M8096).

2. REQUIREMENTS

HARDWARE: ICR11 CONTROLLER WITH FILE BOX
STORAGE: ICB REQUIRES:

1. DECIMAL WORDS: 666
2. OCTAL WORDS: 1232
3. OCTAL BYTES: 2464

3. PASS DEFINITION

ONE PASS OF THE ICB MODULE CONSISTS OF CSR CHECKS, 256 TRANSMIT/RECEIVE SEQUENCES TO THE ICR REMOTE TTY, AND INTERRUPT CHECKS.

4. EXECUTION TIME

ONE PASS OF THE ICB MODULE RUNNING ALONE ON A PDP11/05 TAKES APPROXIMATELY 45 SECONDS.

5. CONFIGURATION REQUIREMENTS

DEFAULT PARAMETERS:
DEVADR: 171776, VECTOR: 234, BR1: 6, DEVCNT: 1
REQUIRED PARAMETERS:
NONE

6. DEVICE/OPTION SETUP

MAKE SURE ICR REMOTE END IS POWERED UP, REMOTE TTY PLUG IS IN, ALL INTERRUPT SENSE MODULES ARE UNPLUGGED

7. MODULE OPERATION

TEST SEQUENCE

- A. SET UP ICR REGISTERS FROM ADDR
- B. TEST RESET FUNCTION OF ICR
- C. TEST ICR INTERRUPT ENABLER TO SET AND CLEAR
- D. TEST RIF BIT TO SET/CLEAR
- E. FORCE MAINTENANCE INTERRUPT AND CHECK
- F. CHECK RIF FUNCTION ON INTERRUPT
- G. ISSUE RESET TO ICR
- H. CHECK OUTPUT BUSY
- I. SEND DATA TO REMOTE TTY
- J. WAIT FOR DA INTERRUPT TO L, IF TBMT GO TO H
- K. READ TTY DATA AND CHECK
- L. IF END OF PASS
- M. RESTART TEST AT LOCATION RESTRI
- N.

8. OPERATOR OPTIONS

NONE

9. NON-STANDARD PRINTOUTS

ALL PRINTOUTS ARE STANDARD DEC/X11.

```

131 000000*
132 000000*
133
134 IOMOD <ICBC > 171776,234,6,0,2,71
135 MODULE 140000,ICBC 171776,234,6,0,2,71
136 ; TITLE ICBC DEC/X11 SYSTEM EXERCISER MODULE
137 ; DDCM VERSION 6 23-MAY-78
138 ; LIST BIN
139 *****
140 BEGIN:
141 MODNAM: -ASCII /ICBC / MODULE NAME.
142 XLIST: -BYTE OPEN ;USED TO KEEP TRACK OF WBUFF USAGE
143 ADDR: 171776+0 ;1ST DEVICE ADDR.
144 VECTOR: 234+0 ;1ST BR VECTOR.
145 BR1: -BYTE PRTV6+0 ;1ST BR LEVEL.
146 BR2: -BYTE PRTV0+0 ;2ND BR LEVEL.
147 DIVD1: -1 ;
148 SR1: OPEN ;DEVICE INDICATOR 1.
149 SR2: OPEN ;SWITCH REGISTER 1
150 SR3: OPEN ;SWITCH REGISTER 2
151 SR4: OPEN ;SWITCH REGISTER 3
152 SR5: OPEN ;SWITCH REGISTER 4
153 *****
154 STAT: 140000
155 INIT: 140000 ;STATUS WORD.
156 SPOINT: MODSP ;MODULE START ADDR.
157 PASCNT: 0 ;MODULE STACK POINTER.
158 ICONF: 2 ;PASS COUNTER.
159 SOFCNT: 0 ;# OF ITERATIONS PER PASS=2
160 HRDCNT: 0 ;LOC TO COUNT ITERATIONS
161 SORPAS: 0 ;LOC TO SAVE TOTAL SOFT ERRORS
162 HRDPAS: 0 ;LOC TO SAVE TOTAL HARD ERRORS
163 SYSCNT: 0 ;LOC TO SAVE SOFT ERRORS PER PASS
164 CONFC: 0 ;LOC TO SAVE HARD ERRORS PER PASS
165 RES1: 0 ;# OF SYS ERRORS ACCUMULATED
166 RES2: 0 ;HOLDS RANDOM # WHEN RAND MACRO IS CALLED
167 SVR0: OPEN ;RESERVED FOR MONITOR USE
168 SVR1: OPEN ;RESERVED FOR MONITOR USE
169 SVR2: OPEN ;RESERVED FOR MONITOR USE
170 SVR3: OPEN ;LOC TO SAVE R0
171 SVR4: OPEN ;LOC TO SAVE R1
172 SVR5: OPEN ;LOC TO SAVE R2
173 SVR6: OPEN ;LOC TO SAVE R3
174 CSRA: OPEN ;LOC TO SAVE R4
175 ACSR: OPEN ;LOC TO SAVE R5
176 WASADR: OPEN ;LOC TO SAVE R6
177 ASTAT: OPEN ;ADDR OF CURRENT CSR.
178 ERR1TP: OPEN ;ADDR OF GOOD DATA, OR
179 ASB: OPEN ;CONTENTS OF CSR.
180 RSTRT: RSTRT ;ADDR OF BAD DATA, OR
181 WDT0: OPEN ;STATUS REG CONTENTS.
182 WDFR: OPEN ;TYPE OF ERROR.
183 INTR: OPEN ;EXPECTED DATA.
184 IDNUM: 71 ;ACTUAL DATA.
185 ;RESTART ADDRESS AFTER END OF PASS
186 ;WORDS TO MEMORY PER ITERATION
187 ;WORDS FROM MEMORY PER ITERATION
188 ;# OF INTERRUPTS PER ITERATION
189 ;MODULE IDENTIFICATION NUMBER=71
190 ;MODULE STACK STARTS HERE.
191
192 ;REPT SPSIZ
193 ;NLIST

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187
188 -WORD 0
189 -LIST
190 000224* -ENDR
191 MODSP:
192 *****

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```
193 000224 000000 TR0: -WORD 0 ;TEMP STORAGE
194 000226 000000 ERRFLP: -WORD 0 ;ERROR INDICATOR
195 000230 171774 ICAR: -WORD 171774 ;ICR ADDR REG.
196 000232 000000 TEMP1: -WORD 0 ;TEMP LOC
197 000236 000000 TEMP2: -WORD 0 ;TEMP LOC
198 000240 000000 INTPLG: -WORD 0 ;INTERRUPT OCCURRED FLAG
199 000242 000000 DATSWT: -WORD 0 ;DATA OUT INDICATOR
200 000244 000000 VECT3: -WORD 0 ;PSW PICKUP FOR TEST
201 000246 000000 ;TEMP STORAGE
202
203 000246 012767 000400 177640 START: MOV #400,WDT0 ;400 WORDS TO MEM/ITERATION
204 000254 012767 000400 177634 MOV #400,WDFR ;400 WORDS FROM MEM/ITERATION
205 000262 012767 000002 177630 MOV #24,INTR ;24 INTERRUPTS/ITERATION
206 000270 012767 171000 177634 MOV #171000,TEMP1 ;CREATE MODULE ADDRESS OF ICR UNDER TEST
207 000276 012767 171776 177730 MOV #171776,TEMP2 ;SETUP FIRST ICR CSR ADDRESS
208 000304 026767 177476 177722 1$: CMP ADDR,TEMP2 ;COMPARE ICSR TO CSR ADDRESS
209 BEQ RESTR1 ;IF FOUND THEN BR RESTR1
210 000312 012767 000040 177710 ADD #40,TEMP1 ;NOT FOUND CREATE RESTR
211 000322 162767 000010 177704 MOV #10,TEMP2 ;MODULE ADDRESS AND CSR
212 000330 016767 177700 177672 SUB #10,TEMP2 ;GET CSR TO FORM ADDR BUFFER
213 000336 162767 000002 177664 MOV #2,ICAR ;CREATE ICAR OF ICR
214 000344 000767 177434 177524 RESTR1: BR #6,ICAR ;LOOP BACK TO TEST NEW ADDR
215 000354 052777 040000 177424 ADDR,CSRA ;SET UP ICSR
216 000362 005777 177420 177424 BIS #40000,@ADDR ;ISSUE RESET
217 000366 001407 TST ADDR ;DID RESET WORK
218 000370 017767 177412 177512 BND ;YES, THEN JS
219 000376 005067 177504 CLR #ADDR,ANAS ;SET UP PERTINENT
220 ;INFORMATION FOR ERROR CALL
221
222
223
224 000402 104404 000000 ;*****
225 DATERS,BEGIN ;DATA ERROR!!!
226 ;*****
227 ;MAINT BIT 3 DID NOT CLEAP
228 ;ICR CSR
229
230
231
232
233 ;TEST OF ICR CSR ENABLE BITS - TTYEN,RIF
234
235 000406 052777 000001 177372 3$: BIS #1,@ADDR ;SET RIF BIT
236 000414 032777 000001 177364 BIT #5,@ADDR ;RIF BIT SET?
237 000422 001014 BNE #5 ;YES, TEST OK CONT
238
239
240 000424 017767 177356 177450 MOV #ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
241 000432 104403 000000 002450 MSGNS,BEGIN,RIFCLR ;ASCII MESSAGE CALL WITH COMMON HEADER
242 000440 012767 000025 177440 MOV #25,ERRTYP ;BIT STUCK
243 ;*****
244 ;*****
245 ;*****
246 ;*****
247 ;*****
248 000454 042777 000001 177324 4$: BIC #1,@ADDR ;CLEAR RIF BIT
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249 000462 032777 000001 177316 BIT #5 ;RIF CLEARED?
250 000470 001414 BEQ #5 ;YES, TEST OK CONT
251
252
253 000472 017767 177310 177402 MOV #ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
254 000500 104403 000000 002450 MSGNS,BEGIN,RIFCLR ;ASCII MESSAGE CALL WITH COMMON HEADER
255 000506 012767 000025 177372 MOV #25,ERRTYP ;BIT WOULD NOT CLEAR
256 ;*****
257 ;*****
258 ;*****
259 ;*****
260
261 000522 005077 177260 5$: CLR #ADDR ;CLEAR ICR CSR
262 000526 052777 000040 177252 BIS #40,@ADDR ;SET TTYEN
263 000534 032777 000040 177244 BIT #40,@ADDR ;TTYEN SET
264 000542 001014 BNE #6 ;YES TEST OK CONT
265
266
267 000544 017767 177236 177330 MOV #ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
268 000552 104403 000000 002450 MSGNS,BEGIN,TTYCLR ;ASCII MESSAGE CALL WITH COMMON HEADER
269 000560 012767 000025 177320 MOV #25,ERRTYP ;BIT STUCK
270 ;*****
271 ;*****
272 ;*****
273 ;*****
274 ;*****
275 000566 104405 000000 000000 ;*****
276 ;*****
277 ;*****
278 ;*****
279
280 000574 042777 000040 177204 6$: BIC #40,@ADDR ;CLEAR TTYEN
281 000602 032777 000040 177176 BIT #40,@ADDR ;TEST FOR TTYEN CLEAR
282 000610 001414 BEQ #5 ;TESTED OK CONTINUE
283
284
285 000612 017767 177170 177262 MOV #ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
286 000620 104403 000000 002450 MSGNS,BEGIN,TTYCLR ;ASCII MESSAGE CALL WITH COMMON HEADER
287 000626 012767 000025 177252 MOV #25,ERRTYP ;BIT STUCK
288 ;*****
289 ;*****
290 ;*****
291 ;*****
292 ;*****
293 000634 104405 000000 000000 ;*****
294 ;*****
295 ;*****
296 ;*****
297 ;*****
298
299
300 ;GENERATE INTERRUPT AND CHECK THAT RIF CLEARS, MOD INT
301 ;CLEARS
302
303 000642 012777 000776 177140 7$: MOV #924,VECT0R ;SET UP FOR INTERRUPT
304 000650 016767 177134 177364 MOV #VECT2 ;CREATE VECTOP + 2 FOR PSW PICKUP
305 000656 062767 000002 177356 ADD #2,VECT2
306 000664 157777 177122 177350 MOV #15,VECT2 ;SET PRIORITY LEVEL ON INTERRUPT
307 000670 005067 000002 177108 MOV #4,@ADDR ;ENABLE INTERRUPT
308 000704 012767 000020 177322 CLR INTPLG ;CLEAR INTERRUPT INDICATION FLAG
309 000712 052777 020000 177066 BIS #20,TEMP2 ;SET COUNT FOR TIMEOUT
310 ;CAUSE INTERRUPT
311
312 ;*****
313 ;*****
314 ;*****
315 ;*****
316 ;*****
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305 000720 000000 000000
306 000720 104407 000000
307 000724 104407 000000
308
309
310
311 000730 005767 177302
312 000734 001423 177302
313 000736 005367 177272
314 000742 001366 177272
315
316
317 000744 017767 177036 177130
318 000752 104403 000000 002404
319 000760 012767 000023 177120
320
321 000766 104405 000000 000000
322
323
324
325
326 000774 000470
327
328 000776 005267 177234 9$:
329 001002 000000 000000
330 001004 032777 000200 176774 10$:
331 001012 001014
332
333 001014 017767 176766 177060
334 001024 104403 000000 002410
335 001030 012767 000023 177050
336
337 001036 104405 000000 000000
338
339
340
341
342
343 001044 052777 000001 176734 11$:
344 001052 005777 177154
345 001056 032777 000200 176722
346 001064 001414
347
348
349 001066 017767 176714 177006
350 001074 104403 000000 002420
351 001102 012767 000025 176776
352
353 001110 104405 000000 000000
354
355
356
357
358 001116 032777 000001 176662 12$:
359 001124 001414
360

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361 001126 017767 176654 176746
362 001134 104403 000000 002414
363 001142 012767 000025 176736
364
365 001150 104405 000000 000000
366
367
368
369
370 001156 052777 040000 176622 TTY3:
371
372
373
374
375
376
377
378 001164 012777 001426 176616
379 001172 005067 177042
380 001176 005067 176704
381 001202 052777 000040 176576 TTY2:
382 001210 012767 000100 177016
383
384 001216 000000 000000 1$:
385 001216 104407 000000
386 001222 104407 000000
387
388 001226 005777 176554
389 001232 100021
390
391
392 001234 005367 176774
393 001240 001366
394
395
396 001242 017767 176540 176632
397 001250 104403 000000 002424
398 001256 012767 000016 176622
399
400 001264 104405 000000 000000
401
402
403 001272 000167 177660
404
405 001276 005067 176734 2$:
406 001302 016777 176600 176722
407 001310 005267 176724
408 001314 052777 000006 176464 TTY1:
409 001322 012767 001000 176714
410
411
412 001330 000000 000000 1$:
413 001330 104407 000000
414 001334 104407 000000
415
416 001340 005767 176672

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417 001344 001402 BEQ 2$ ;NO, STAY IN LOOP
418
419 001346 000167 000062 JMP SVCIC ;YES, GO SERVICE IT
420
421 001352 005367 176666 2$: DEC TEMP3 ;DEC WATCHDOG
422 001356 001364 BNE 1$ ;IF NOT TIMED OUT STAY IN LOOP
423
424 ;NO INTERRUPT FROM REMOTE TTY TRANSMISSION
425
426
427
428 001360 042777 000006 176420 BIC #6,@ADDR ;CLEAR INTERRUPT ENABLES BEFORE PRINT
429
430
431 001366 017767 176414 176506 MOV @ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
432 001374 104403 000000 002430 MSGNS,BEGIN,NOTTY ;ASCII MESSAGE CALL WITH COMMON HEADER
433 001402 012767 000023 176476 MOV #23,ERRTYP ;NO INTERRUPT FROM REMOTE TTY
434 ;*****
435 001410 104405 000000 000000 HDRS,BEGIN,NULL ;TTY HUNG
436 ;*****
437
438
439 001416 000167 000342 JMP FINI ;DROP MODULE
440
441 001422 000167 000326 3$: JMP ENPAS ;PASS DONE
442
443 ;
444 ;
445 ;
446 ;
447 001426 005267 176604 ICRSRV: INC INTPLG ;SET INTERRUPT FLAG
448 001432 000002 RTI ;RETURN
449 001434 052777 000001 176344 SVCIC: BIS #1,@ADDR ;SET RIF BIT
450 001442 042777 000005 176336 BIC #6,@ADDR ;CLEAR INTERRUPT ENABLES
451 001450 005067 176552 CLR ERRFLP ;CLEAR ERROR INDICATOR
452 001454 032777 010000 176324 BIT #10000,@ADDR ;DID ERROR CAUSE INTR.
453 BEQ 1$ ;NO CHECK OTHERS
454 001464 005267 176536 INC ERRFLP ;INDICATE ERROR
455 001470 032777 000200 176310 1$: BIT #200,@ADDR ;MODULE INTERRUPT THE CAUSE
456 001476 001753 176522 BEQ 2$ ;NO CHECK FOR LINE ERROR
457 001500 031753 010000 176522 BIT #10000,@ICAR ;DATA AVAILABLE?
458 001506 001055 176512 BNE 3$ ;YES GO GET DATA
459 001510 032777 100000 176512 BIT #100000,@ICAR ;TRANSMITTER BUFFER EMPTY?
460 001516 001101 BNE 7$ ;YES, GO LOAD NEXT PATTERNS
461
462 ;WASN'T DA OR TBMT JUST MODINT, SHOULDN'T BE SO
463 ;INDICATE ERROR
464
465 001520 005777 176506 TST @TEMP1 ;ISSUE RIF
466 001524 017767 176500 176472 MOV @ICAR,TRO ;CLEAR ERROR
467
468
469
470 001532 017767 176250 176342 MOV @ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
471 001540 104403 000000 002434 MSGNS,BEGIN,MODGOF ;ASCII MESSAGE CALL WITH COMMON HEADER
472 001546 012767 000011 176332 MOV #11,ERRTYP ;ILLEGAL INTERRUPT
473 ;*****
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473 001554 104405 000000 000000 HDRS,BEGIN,NULL ;MOD INT ILLEGAL
474 ;*****
475
476
477 001562 000167 177370 JMP TTY3 ;ILLEGAL INTR. RETRY TEST
478
479
480 001566 005767 176434 2$: TST ERRFLP ;ERR CAUSES INTR.
481 001572 001014 BNE 3$
482
483
484 001574 017767 176206 176300 MOV @ADDR,ACSR ;LOAD CONTENTS OF CSR FOR ERROR
485 001602 104403 000000 002440 MSGNS,BEGIN,SPURIN ;ASCII MESSAGE CALL WITH COMMON HEADER
486 001610 012767 000011 176270 MOV #11,ERRTYP ;ILLEGAL INTERRUPT
487 ;*****
488 001616 104405 000000 000000 HDRS,BEGIN,NULL ;INTR THAT WASN'T MOD OR ERROR
489 ;*****
490
491
492
493 001624 017767 176400 176372 3$: MOV @ICAR,TRO ;CLEAR ERROR
494 001632 005067 176370 CLR ERRFLP ;CLEAR ERROR INDICATOR
495 001636 000167 177340 JMP TTY2 ;RETURN & RE-TRANSMIT
496
497 ;
498 ;
499 ;
500 ;
501
502 001642 017767 176364 176240 4$: MOV @TEMP1,AWAS ;READ TTY DATA
503 001650 016767 176356 176224 MOV @TEMP1,ACSR ;SET UP ERROR DATA
504 001656 026767 176226 176222 CMP AWAS,ASB ;COMPARE AGAINST SENT
505 001664 001402 BEQ 5$ ;CORRECT, GO TO 5$
506
507
508 001666 104404 000000 000000 ;*****
509 DATERS,BEGIN ;DATA ERROR!!!
510 ;*****
511 ;READ ERROR
512
513
514
515 001672 005267 176210 5$: INC ASE ;INC PATTERN
516 001676 005067 176336 CLR DATSWT ;CLEAR DATA ON IT'S WAY
517 001702 032767 000400 176176 BIT #400,ASB ;DONE
518 001710 017767 176312 176304 BEQ 7$ ;NO, 7$
519 001720 000415 176312 176304 6$: MOV @ICAR,TRO ;READ ICAR TO CLEAR ERROR BIT
520 BR ENPAS ;EXIT
521
522 001722 005767 176312 7$: TST DATSNT ;DATA IN XMISSION
523 001726 001005 BNE 8$ ;YES 8$
524 001730 017767 176274 176266 MOV @ICAR,TRO ;READ ICAR TO CLEAR ERROR BIT
525 001736 000167 176240 JMP TTY2 ;RE-SEND
526 001742 017767 176262 176254 8$: MOV @ICAR,TRO ;READ ICAR TO CLEAR ERROR BIT
527 001750 000167 177340 JMP TTY1 ;RE-SEND
528 001754 104413 000000 000000 ENPAS: ENDT$,BEGIN ;SIGNAL END OF ITERATION.
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529
530 001760 000167 176362 JMP RSTRT ;MONITOR SHALL TEST END OF PASS
531 001764 ;LOOP
532 001764 104410 000000 FINI: ENDS,BEGIN ;DROP THE MODULE
533
534 001770 047040 020117 047111 MES2: .EVEN
535 001776 042524 051122 050125 .ASCIZ ' NO INTERRUPT'
536
537 002006 044440 052116 051105 MES3: .ASCIZ ' INTERRUPT NOT MODULE INTERRUPT'
538
539 002014 052522 052120 047040
540 002022 052117 046440 042117
541 002030 046125 020105 047111
542 002039 042524 051122 050125
543 002049 000124
544 002046 051040 043111 051440 MES4: .ASCIZ ' RIF STAYED SET'
545 002054 040524 042531 020104
546 002062 042523 000124
547 002069 051040 043111 042040 MES5: .ASCIZ ' RIF DID NOT CLEAR INTERRUPT'
548 002077 042111 047040 052117
549 002102 041440 042514
550 002110 044440 052116 051105
551 002116 052522 052120 000
552 002123 040 044514 042516 MES6: .ASCIZ ' LINE ACTIVE TOO LONG'
553 002130 040440 052103 053114
554 002136 020105 047514 020117
555 002144 047514 043516 000
556 002151 040 042522 047515 MES7: .ASCIZ ' REMOTE TTY TEST HUNG'
557 002156 042524 052040 054524
558 002164 052040 051505 020124
559 002172 052510 043516 000
560 002177 040 043111 042514 MES8: .ASCIZ ' ILLEGAL MODULE INTERRUPT'
561 002204 040507 020114 047515
562 002212 052504 042514 044440
563 002220 052116 051105 052522
564 002226 052120 000
565 002234 050123 051125 051125 MES9: .ASCIZ ' SPURIOUS INTERRUPT'
566 002238 047511 051525 044440
567 002244 052116 051105 052522
568 002252 052120 000
569 002255 040 044522 020106 MES10: .ASCIZ ' RIF BIT NOT SET'
570 002262 044502 020124 047515
571 002270 042523 000124
572 002276 051040 043111 041040 MES11: .ASCIZ ' RIF BIT NOT CLEAR'
573 002304 052111 047040 052117
574 002312 041440 042514 051101
575 002320 000
576 002329 040 052124 020131 MES12: .ASCIZ ' TTY ENABLE BIT NOT SET'
577 002336 047105 041101 042514
578 002334 041040 052101 047040
579 002342 052117 051440 052105
580 002350 000
581 002351 040 052124 020131 MES13: .ASCIZ ' TTY ENABLE BIT NOT CLEAR'
582 002356 047105 041101 042514
583
584

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585 002364 041040 052111 047040
586 002372 052117 041440 042514
587 002400 051101 000
588 002404 .EVEN
589 002404 001770 NOINT: MES2 177777
590 002406 177777
591
592 002410 002006 MOMOD: MES3 177777
593 002412 177777
594
595 002414 002046 RIFSET: MES4 177777
596 002416 177777
597
598 002420 002066 RIFMOD: MES5 177777
599 002422 177777
600
601 002424 002123 OUTBSY: MES6 177777
602 002426 177777
603
604 002430 002151 NOTTY: MES7 177777
605 002432 177777
606
607 002434 002177 MODGOP: MES8 177777
608 002436 177777
609
610 002440 002231 SPURIN: MES9 177777
611 002442 177777
612
613 002444 002255 RIFNOT: MES10 177777
614 002446 177777
615
616 002450 002276 RIFCLR: MES11 177777
617 002452 177777
618
619 002454 002321 TTYNOT: MES12 177777
620 002456 177777
621
622 002460 002351 TTYCLR: MES13 177777
623 002462 177777
624
625 000001 .END
626

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