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IDENTIFICATION

PRODUCT CODE: AC-F060C-MC
PRODUCT NAME: CX8MDC0 LSI-11 RDV11 MOD
PRODUCT DATE: FEB 1979
MAINTAINER: DEC/X11 SUPPORT GROUP

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- 1. ABSTRACT:

RMD IS A RKMOD THAT VERIFIES CHECKSUMS FOR EACH ROM/EPRROM ON THE RMDV11 BOOTSTRAP MODULE.
- 2. REQUIREMENTS:

HARDWARE: LSI-11 PROCESSOR
STORAGE: RMD REQUIREMENTS:
1. DECIMAL WORDS: 239
2. OCTAL WORDS: 0357
3. OCTAL BYTES: 737
- 3. PASS DEFINITION:

A SINGLE PASS CONSISTS OF THE CHECKSUM VERIFICATION OF ALL ROMS 30 (8) TIMES.
- 4. EXECUTION TIME:

THE RMD RUNNING ALONE ON THE LSI-11 REQUIRES APPROXIMATELY SECS. TO RUN.
- 5. CONFIGURATION REQUIREMENTS:

DEFAULT PARAMETERS:
ROM ADDRESS: 173000
- 6. DEVICE/OPTION SETUP:

NONE
- 7. MODULE OPERATION:

A. SET UP THE PAGE CONTROL REGISTER
B. TEST FOR EXISTENT MEMORY
C. COMPUTE A CHECKSUM FOR AN EXISTENT PAGE OF ROM
D. ADD CHECKSUM TO THE VALUE STORED IN THE ROM
E. IF THE RESULT IS 0, REPEAT STEPS B-D FOR EACH PAGE
- 8. OPERATION OPTIONS:

NONE
- 9. NON-STANDARD PRINTOUTS:

NONE


```
529 000502 022767 007416 177520 DCERR: CMP #7416,PCR ;DIAGNOSTIC ROM>  
530 000510 022767 007416 177520 BLT 7S ;RR IF NO  
531 000512 005067 177370 CLR ERRTYP  
532 000516 104405 000000 000000 ;*****  
533 000524 104403 000000 000562 HRDRS,REGIN,NULL ;DIAGNOSTIC ROM CHECKSUM HRDRS  
534 000532 000207 177346 MSGNS,REGIN,MSG2 ;ASCII MESSAGE CALL WITH COMMON HEADER  
535 000534 005067 177346 RTS PC ;RETURN  
536 000540 104405 000000 000000 CLR ERRTYP  
537 000546 104403 000000 000566 HRDRS,REGIN,NULL ;CHECKSUM ERROR--NON-DIAGNOSTIC ROM  
538 000554 000207 000000 000566 MSGNS,BEGIN,MSG3 ;ASCII MESSAGE CALL WITH COMMON HEADER  
539 000556 000572 MSG1: NONXT  
540 000560 177777 MSG2: DIAG  
541 000562 000633 MSG3: 177777  
542 000564 177777  
543 000566 000673  
544 000570 177777  
545 000572 042045 040511 047107 NONXT: .ASCIZ "%DIAGNOSTIC ROM IS NON-EXISTENT%"  
546 000600 051517 044524 020103  
547 000606 047522 020115 051511  
548 000614 047040 047117 022455  
549 000622 044530 052123 047105  
550 000630 022524 0000 0000  
551 000633 045 044504 043501 DIAG: .ASCIZ "%DIAGNOSTIC ROM CHECKSUM ERROR%"  
552 000640 047516 052123 041511  
553 000646 051040 047517 041440  
554 000654 042510 045503 052523  
555 000662 020115 051105 047522  
556 000670 022524 0000 0000  
557 000673 045 047516 026516 NDIAG: .ASCIZ "%NON-DIAGNOSTIC ROM CHECKSUM ERROR%"  
558 000700 044504 043501 047516  
559 000706 052123 041511 051040  
560 000714 046517 041440 042510  
561 000722 045503 042523 042515  
562 000730 051105 047522 022522  
563 000736 0000 0000  
547 000001 .END  
548
```

```
ACSR 000102R BR2 000013R MODNAM 000000R PRTV6 = 000300 START 000234R  
ADDR 000006R BTODS = 104421 MODDSP 000224R PRTV7 = 000340 STAT 000126R  
ADDR22= 001000R CDATA= 104412 MSGNS = 104403 PS = 177776 ST1 000150R  
ASB 000106R CONFIG 000056P MSGSS = 104402 PSW = 177775 SUMH 000226R  
ASTAT 000104R CSRA = 000100R MSGS = 104401 PUSH = 005746 SUML 000224R  
AWAS 000110R DATCK = 104411 MSG1 = 006566R PUSH2 = 024646 SVR0 000162R  
REGIN 000000R DATER = 104404 MSG2 = 000562R RANDS = 104417 SVR1 000064R  
BIT0 = 000001 DCERR = 000502R MSG3 = 000566R RANUM 000054R SVR2 000066R  
BIT1 = 000002 DIAG 000633R NDIAG 000673R RESTART 000234R SVR3 000070R  
BIT10 = 002000 DVID1 = 000014R NONXT 000572R RES1 000056R SVR4 000072R  
BIT11 = 004000 ENDIT = 104413 NULL = 000000 RES2 000060R SVR5 000074R  
BIT12 = 010000 ENDS = 104410 OPEN = 000000 RSTPT 000112R SVR6 000076R  
BIT13 = 020000 ERRTYP 000106R OTDAS = 104420 R6 = 000006 SVSCNT 000152R  
BIT14 = 040000 EXITS = 104400 PASCNT = 000034R R7 = 000007 TMPH 000232R  
BIT15 = 000000 GEPAS = 104415 PCR = 177520 SRADR 000102R TMPL 000238R  
BIT2 = 000004 GRBUF = 104414 PRQS = 000004 SOFCNT 000042R TPDFD = 000322  
BIT3 = 000010 HRDCNT = 000044R POPSP2 = 005726 SOFPERS = 104406 VECTOR 000016R  
BIT4 = 000020 HRDRS = 104405 HRDRSPAS 000056R PRTV = 000000 SPOINT 000332R WASADR 000104R  
BIT5 = 000140 ICOUNT 000035R PRTV0 = 000000 SPSIZ = 000040 WDFR 000116R  
BIT6 = 000100 IDNUM 000122R PRTV1 = 000000 SR1 000016R WDT0 000114R  
BIT7 = 000200 INIT 000030R PRTV2 = 000100 SR2 000020R WFLAG = 000058R  
BIT8 = 000400 INTR 000120R PRTV3 = 000160 SR3 000022R  
BREAKS = 104407 MAP22S = 104416 PRTV4 = 000200 SR4 000024R  
BRI 000012R  
ABS. 000000 000  
000737 001
```

ERRORS DETECTED: 0
DEFAULT GLOBALS GENERATED: 0
XBMDCO_SEQ=DDXCOM.P11 XBMDCO.P11
RUN-TIME: 9 1 1 SECONDS
RUN-TIME RATIO: 70/2=2R.4
CORE USED: 7K (13 PAGES)