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| UUU | UUU | TTTTTTTTTTTTTTTT | IIIIIIIIII | LLL | 3333333333 | 2222222222 |
| UUU | UUU | TTTTTTTTTTTTTTTT | IIIIIIIIII | LLL | 3333333333 | 2222222222 |
| UUU | UUU | TTTTTTTTTTTTTTTT | IIIIIIIIII | LLL | 3333333333 | 2222222222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUU | UUU | TTTT | III | LLL | 333 | 222 |
| UUUUUUUUUUUUUUUU | UUUUUUUUUUUUUUUU | TTTT | IIIIIIIIII | LLLLLLLLLLLLLLLL | 3333333333 | 22222222222222 |
| UUUUUUUUUUUUUUUU | UUUUUUUUUUUUUUUU | TTTT | IIIIIIIIII | LLLLLLLLLLLLLLLL | 3333333333 | 22222222222222 |
| UUUUUUUUUUUUUUUU | UUUUUUUUUUUUUUUU | TTTT | IIIIIIIIII | LLLLLLLLLLLLLLLL | 3333333333 | 22222222222222 |

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! Image Section Synopsis !
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| Cluster | Type | Pages | Base Addr | Disk VBN | PFC | Protection and Paging | Global Sec. Name | Match | Majorid | Minorid |
|-----------------|------|-------|------------|----------|-----|--------------------------|------------------|------------|---------|---------|
| DEFAULT_CLUSTER | 0 | 1 | 00000200 | 2 | 0 | READ ONLY | | | | |
| | 0 | 1 | 00000400 | 0 | 0 | READ WRITE DEMAND ZERO | | | | |
| | 0 | 6 | 00000600 | 3 | 0 | READ ONLY | | | | |
| | 0 | 2 | 00001200 | 9 | 0 | READ WRITE COPY ON REF | | | | |
| | 0 | 1 | P-00001600 | 11 | 0 | READ ONLY | | | | |
| | 0 | 1 | 00001800 | 12 | 0 | READ WRITE FIXUP VECTORS | | | | |
| | 253 | 20 | 7FFFD800 | 0 | 0 | READ WRITE DEMAND ZERO | | | | |
| LIBRTL | 3 | 111 | 00000000-R | 0 | 0 | READ ONLY | LIBRTL_001 | LESS/EQUAL | 1 | 11 |
| | 4 | 1 | 0000DE00-R | 0 | 0 | READ WRITE DEMAND ZERO | LIBRTL_002 | LESS/EQUAL | 1 | 11 |

Key for special characters above:

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! R - Relocatable !
! P - Protected !
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! Program Section Synopsis !

| <u>Psect Name</u> | <u>Module Name</u> | <u>Base</u> | <u>End</u> | <u>Length</u> | <u>Align</u> | <u>Attributes</u> |
|-------------------|---------------------------------|----------------------------------|----------------------------------|--|--|---|
| SPLITS | CHECKSUM_IMAGE | 00000200 00000200 | 00000273 00000273 | 00000074 () 00000074 () | 116.) LONG 2 116.) LONG 2 | NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD,NOWRT,NOVEC |
| \$GLOBALS | CHECKSUM_IMAGE | 00000400 00000400 | 0000040F 0000040F | 00000010 () 00000010 () | 16.) LONG 2 16.) LONG 2 | NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC |
| \$OWNS | CHECKSUM_IMAGE | 00000410 00000410 | 00000583 00000583 | 00000174 () 00000174 () | 372.) LONG 2 372.) LONG 2 | NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC |
| \$CODES | CHECKSUM_IMAGE CLISINTERFACE | 00000600 00000600 00000F18 | 0000111B 00000F15 0000111B | 00000B1C () 00000916 () 000C0204 () | 2844.) LONG 2 2326.) LONG 2 516.) LONG 2 | NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD,NOWRT,NOVEC |
| YF\$\$\$SYSIMGACT | IMG\$DECODE | 00001200 00001200 | 00001564 00001564 | 00000365 () 00000365 () | 869.) LONG 2 869.) LONG 2 | NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD, WRT,NOVEC |
| MSG\$AAAAAAAAAAA | CKSMMSG | 00001600 00001600 | 0000160F 0000160F | 00000010 () 00000010 () | 16.) LONG 2 16.) LONG 2 | PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD,NOWRT, VEC |
| MSG\$AAAAAAAAAAB | CKSMMSG | 00001610 00001610 | 00001613 00001613 | 00000004 () 00000004 () | 4.) LONG 2 4.) LONG 2 | PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD,NOWRT, VEC |
| MSG\$AAAAAAAAAAC | CKSMMSG | 00001614 00001614 | 00001617 00001617 | 00000004 () 00000004 () | 4.) LONG 2 4.) LONG 2 | PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD,NOWRT, VEC |
| MSG\$SECTION | CKSMMSG | 00001618 00001618 | 000017AA 000017AA | 00000193 () 00000193 () | 403.) BYTE 0 403.) BYTE 0 | PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD,NOWRT, VEC |

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: Symbol Cross Reference !
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| Symbol | Value | Defined By | Referenced By ... |
|--------------------|-------------|----------------|------------------------------|
| ----- | ----- | ----- | ----- |
| CKSMSGL_ACUCKSM | 00000408-R | CHECKSUM_IMAGE | |
| CKSMSGL_CHKSUM | 00000404-R | CHECKSUM_IMAGE | |
| CKSMSGL_IHDCKSM | 00000400-R | CHECKSUM_IMAGE | |
| CKSMSGL_MAXBYT | 0000040C-R | CHECKSUM_IMAGE | |
| CKSMS_ACLISCHK | 00C2800B | CKSMMSG | CHECKSUM_IMAGE |
| CKSMS_BADIMGHDR | 00C28032 | CKSMMSG | CHECKSUM_IMAGE |
| CKSMS_FACILITY | 000000C2 | CKSMMSG | |
| CKSMS_FILE | 00C28013 | CKSMMSG | CHECKSUM_IMAGE |
| CKSMS_IHDCHKSUM | 00C2801B | CKSMMSG | CHECKSUM_IMAGE |
| CKSMS_ISECTCHK | 00C28023 | CKSMMSG | CHECKSUM_IMAGE |
| CKSMS_NONIMGCHK | 00C2802B | CKSMMSG | CHECKSUM_IMAGE |
| CLISDCL_PARSE | 00000FE7-R | CLISINTERFACE | |
| CLISDISPATCH | 00001098-R | CLISINTERFACE | |
| CLISGET_VALUE | 00000F5B-R | CLISINTERFACE | CHECKSUM_IMAGE |
| CLISNEXT_QUAL | 000010D9-R | CLISINTERFACE | |
| CLISPRESENT | 00000F18-R | CLISINTERFACE | CHECKSUM_IMAGE |
| CLIS_ABSENT | 000381F0 | CLISGLOBALS | CLISINTERFACE |
| CLIS_COMMA | 0003FD39 | CLISGLOBALS | CLISINTERFACE |
| CLIS_CONCAT | 0003FD29 | CLISGLOBALS | CLISINTERFACE |
| CLIS_DEFAULTED | 0003FD21 | CLISGLOBALS | CLISINTERFACE |
| CLIS_LOCNEG | 00038230 | CLISGLOBALS | CLISINTERFACE |
| CLIS_LOCPRES | 0003FD31 | CLISGLOBALS | CLISINTERFACE |
| CLIS_NEGATED | 000381F8 | CLISGLOBALS | CLISINTERFACE |
| CLIS_NOCOMD | 000380B0 | CLISGLOBALS | CLISINTERFACE |
| CLIS_PRESENT | 0003FD19 | CLISGLOBALS | CLISINTERFACE |
| EXEC_SYSEFN | 0000001F | SYS | IMG\$DECODE |
| GETFILENAME | 00000EE0-R | CHECKSUM_IMAGE | |
| IMG\$DECODE_IHD | 00001208-R | IMG\$DECODE | CHECKSUM_IMAGE |
| IMG\$GET_NEXT_ISD | 000013F3-R | IMG\$DECODE | CHECKSUM_IMAGE |
| LIB\$FIND_FILE | 00001858-RX | LIBRTL | CHECKSUM_IMAGE |
| LIB\$FREE_VM | 00001864-RX | LIBRTL | CHECKSUM_IMAGE CLISINTERFACE |
| LIB\$GET_VM | 00001868-RX | LIBRTL | CHECKSUM_IMAGE CLISINTERFACE |
| LIB\$SET_SYMBOL | 00001854-RX | LIBRTL | CHECKSUM_IMAGE |
| LIB\$SIGNAL | 00001860-RX | LIBRTL | CHECKSUM_IMAGE |
| LIB\$STOP | 0000185C-RX | LIBRTL | CHECKSUM_IMAGE |
| STR\$ANALYZE_SDESC | 00001848-RX | LIBRTL | CLISINTERFACE |
| STR\$COPY_DX | 0000184C-RX | LIBRTL | CHECKSUM_IMAGE |
| STR\$UPCASE | 00001850-RX | LIBRTL | CHECKSUM_IMAGE |
| SYS\$CLI | 7FFEDE18 | SYS\$P1_VECTOR | CLISINTERFACE |
| SYS\$CLOSE | 7FFEE1B8 | SYS | CHECKSUM_IMAGE |
| SYS\$CONNECT | 7FFEE1C0 | SYS | CHECKSUM_IMAGE |
| SYS\$CREATE | 7FFEE1C8 | SYS | CHECKSUM_IMAGE |
| SYS\$DASSGN | 7FFEDEE0 | SYS | CHECKSUM_IMAGE |
| SYS\$DISCONNECT | 7FFEE1D0 | SYS | CHECKSUM_IMAGE |
| SYS\$FAOL | 7FFEDF58 | SYS | CHECKSUM_IMAGE |
| SYS\$GET | 7FFEE180 | SYS | CHECKSUM_IMAGE |
| SYS\$GETMSG | 7FFEE0B0 | SYS | CHECKSUM_IMAGE |
| SYS\$K_VERSION | 48513258 | SYS | |
| SYS\$OPEN | 7FFEE208 | SYS | CHECKSUM_IMAGE |

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| <u>Symbol</u> | <u>Value</u> | <u>Defined By</u> | <u>Referenced By ...</u> | |
|---------------|--------------|-------------------|--------------------------|-------------|
| SYSSPUT | 7FFEE188 | SYS | CHECKSUM_IMAGE | |
| SYSSQIOW | 7FFEDE00 | SYS | CHECKSUM_IMAGE | IMG\$DECODE |

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! Symbols By Value !

| Value | Symbols... |
|----------|-----------------------|
| 0000001F | EXESC_SYSEFN |
| 000000C2 | CKSMS_FACILITY |
| 00000400 | R-CKSMSGL_IHDCKSM |
| 00000404 | R-CKSMSGL_CHKSUM |
| 00000408 | R-CKSMSGL_ACUCKSM |
| 0000040C | R-CKSMSGL_MAXBYT |
| 00000EE0 | R-GETFILENAME |
| 00000F18 | R-CLISPRESENT |
| 00000F5B | R-CLISGET_VALUE |
| 00000FE7 | R-CLISDCL_PARSE |
| 00001098 | R-CLISDISPATCH |
| 000010D9 | R-CLISNEXT_QUAL |
| 00001208 | R-IMG\$DECODE_IHD |
| 000013F3 | R-IMG\$GET_NEXT_ISD |
| 00001848 | RX-STR\$ANALYZE_SDESC |
| 0000184C | RX-STR\$COPY_DX |
| 00001850 | RX-STR\$UPCASE |
| 00001854 | RX-LIB\$SET_SYMBOL |
| 00001858 | RX-LIB\$FIND_FILE |
| 0000185C | RX-LIB\$STOP |
| 00001860 | RX-LIB\$SIGNAL |
| 00001864 | RX-LIB\$FREE_VM |
| 00001868 | RX-LIB\$GET_VM |
| 000380B0 | CLIS_NOCMD |
| 000381F0 | CLIS_ABSENT |
| 000381F8 | CLIS_NEGATED |
| 00038230 | CLIS_LOCNEG |
| 0003FD19 | CLIS_PRESENT |
| 0003FD21 | CLIS_DEFAULTED |
| 0003FD29 | CLIS_CONCAT |
| 0003FD31 | CLIS_LOCPRES |
| 0003FD39 | CLIS_COMMA |
| 00C2800B | CKSMS_ALLISCHK |
| 00C28013 | CKSMS_FILE |
| 00C2801B | CKSMS_IHDCHKSUM |
| 00C28023 | CKSMS_ISECTCHK |
| 00C2802B | CKSMS_NONIMGCHK |
| 00C28032 | CKSMS_BADIMGHDR |
| 48513258 | SYSSK_VERSION |
| 7FFEDE00 | SYSSQIOW |
| 7FFEDE18 | SYSSCLI |
| 7FFEDEE0 | SYSSDASSGN |
| 7FFEDF58 | SYSSFAOL |
| 7FFEE080 | SYSSGETMSG |
| 7FFEE180 | SYSSGET |
| 7FFEE188 | SYSSPUT |
| 7FFEE1B8 | SYSSCLOSE |
| 7FFEE1C0 | SYSSCONNECT |
| 7FFEE1C8 | SYSSCREATE |

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! Image Synopsis !

Virtual memory allocated: 00000200 000019FF 00001800 (6144. bytes, 12. pages)
 Stack size: 20. pages
 Image header virtual block limits: 1. (1. block)
 Image binary virtual block limits: 2. (11. blocks)
 Image name and identification: CHECKSUM V04-000
 Number of files: 7.
 Number of modules: 8.
 Number of program sections: 14.
 Number of global symbols: 286.
 Number of cross references: 106.
 Number of image sections: 9.
 User transfer address: 00000803
 Number of code references to shareable images: 9.
 Image type: EXECUTABLE.
 Map format: FULL WITH CROSS REFERENCE in file _\$255\$DUA28:[UTIL32.LIS]CHECKSUM.MAP;1
 Estimated map length: 76. blocks

! Link Run Statistics !

| Performance Indicators | Page Faults | CPU Time | Elapsed Time |
|--|-------------|-------------|--------------|
| ----- | ----- | ----- | ----- |
| Command processing: | 104 | 00:00:00.27 | 00:00:01.52 |
| Pass 1: | 156 | 00:00:01.38 | 00:00:15.65 |
| Allocation/Relocation: | 30 | 00:00:00.11 | 00:00:00.99 |
| Pass 2: | 42 | 00:00:00.35 | 00:00:03.26 |
| Map data after object module synopsis: | 23 | 00:00:00.31 | 00:00:00.41 |
| Symbol table output: | 1 | 00:00:00.03 | 00:00:00.56 |
| Total run values: | 356 | 00:00:02.45 | 00:00:22.39 |

Using a working set limited to 1050 pages and 68 pages of data storage (excluding image)

Total number object records read (both passes): 428
of which 147 were in libraries and 24 were DEBUG data records containing 2013 bytes

Number of modules extracted explicitly = 3
with 3 extracted to resolve undefined symbols

10 library searches were for symbols not in the library searched

A total of 0 global symbol table records was written

LINK/USERLIB=PROC/EXECUTABLE=EXES:CHECKSUM/MAP=MAPS:CHECKSUM/FULL/CROSS/NOTRACE LIB\$:UTIL32/INCLUDE-(CHECKSUM_IMAGE,CKSMMSG),RESOBJ\$
:SYS.OLB/INCLUDE=IMG\$DECODE,EXSM:SYS.STB/SELECTIVE_SEARCH

A grid of 10 columns and 12 rows of small technical diagrams and tables. Each cell contains detailed information, including circuit diagrams, data tables, and text labels. The diagrams consist of lines, rectangles, and alphanumeric characters, typical of technical schematics from the 1980s. The text labels are scattered throughout the grid, often serving as titles or identifiers for the diagrams.

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| DISKMON MAP |
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UTIL32

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DISK
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