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CCCCCCCC  VV      VV  TTTTTTTTTT  MM      MM  SSSSSSSS  GGGGGGGG
CCCCCCCC  VV      VV  TTTTTTTTTT  MM      MM  SSSSSSSS  GGGGGGGG
CC         VV      VV      TT        MMMM   MMMM  SS         GG
CC         VV      VV      TT        MMMM   MMMM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SSSSSS   GG
CC         VV      VV      TT        MM      MM  SSSSSS   GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CC         VV      VV      TT        MM      MM  SS         GG
CCCCCCCC  VV      VV  TTTTTTTTTT  MM      MM  SSSSSSSS  GGGGGGGG
CCCCCCCC  VV      VV  TTTTTTTTTT  MM      MM  SSSSSSSS  GGGGGGGG

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LL         IIIIII  SSSSSSSS
LL         IIIIII  SSSSSSSS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SSSSSS
LL         II      SSSSSS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

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```
0001      PROGRAM CVTMSG
0002      C
0003      C Version:      'V04-000'
0004      C
0005      C*****
0006      C*
0007      C*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0008      C*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0009      C*  ALL RIGHTS RESERVED.
0010      C*
0011      C*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0012      C*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0013      C*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0014      C*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0015      C*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0016      C*  TRANSFERRED.
0017      C*
0018      C*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0019      C*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0020      C*  CORPORATION.
0021      C*
0022      C*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0023      C*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0024      C*
0025      C*
0026      C*****
0027      C
0028      C---
0029      C
0030      C Abstract:
0031      C
0032      C The following is a mutation of SYMSG.FOR for the purpose of translating
0033      C MDL message file data into syntax appropriate for the Message File Compiler
0034      C
0035      C Author: Tim Halvorsen, Dec 1980
0036      C
0037      C Modified by:
0038      C
0039      C      V004      TMH0004      Tim Halvorsen  20-Jan-1981
0040      C              Output /MACRO whenever the macro suffix is non-null
0041      C              as well as when the macro name is different.
0042      C              Use macro name prefix on single C constructs with $C_
0043      C              infix rather than no prefix at all, which is incorrect.
0044      C
0045      C      V003      TMH0003      Tim Halvorsen  19-Jan-1981
0046      C              Accept macro name suffixes and output them correctly
0047      C              when generating a /MACRO=macnam construct.
0048      C
0049      C      V002      TMH0002      Tim Halvorsen  22-Oct-1980
0050      C              rix OPEN_OUTPUT to extract file name portion of output
0051      C              filespec correctly when no directory portion is present.
0052      C
0053      C      001      TMH0001      Tim Halvorsen  10-Mar-1980
0054      C              Generate .LITERAL statement for MDL C constructs
0055      C---
0056      C
0057      C
```

```
0058 C BASIC VARIABLES USED: 000
0059 C 000
0060 C FACILITIES = ARRAY OF FACILITY NAME STRINGS (INDEXED BY FACNUM) 000
0061 C MACRO_NAME = MACRO NAME STRING 000
0062 C MACRO_SUFFIX = MACRO SUFFIX STRING 000
0063 C PREFIX = SYMBOL PREFIX STRING 004
0064 C NAME = NAME RETURNED BY GETIDENT (CURRENT TOKEN) 005
0065 C COL = CURRENT COLUMN NUMBER 005
0066 C LINE = CURRENT LINE 005
0067 C SYMBOL_NAME = MESSAGE GLOBAL SYMBOL NAME 005
0068 C NUM = VALUE RETURNED BY GETNUM 005
0069 C OUTLINE = OUTPUT LINE (NEW FORMAT) 005
0070 C OUTCOL = OUTPUT COLUMN 005
0071 C 005
0072 C INCLUDE 'SRC$:CVTMSGCOM' 005
0116 LOGICAL*1 GETNUM,GETIDENT,GENCMP,UNBLNK,GETLIN,NEXTFILE 005
0117 C 006
0118 C READ THE FACILITY NAME TABLE (SUBSYSIDS.DAT) 006
0119 C 006
0120 CALL MAKSUBS 006
0121 C 006
0122 C OPEN THE LIST OF FILE SPECIFICATIONS AND OUTPUT FILE 006
0123 C 006
0124 CALL SETUPFILE 006
0125 ERRCNT=0 006
0126 C 006
0127 C OPEN THE NEXT MDL FILE TO PROCESS 007
0128 C 007
0129 60 IF (NEXTFILE().EQ..FALSE.) GOTO 200 007
0130 CALL OPEN OUTPUT 007
0131 70 MACRO_NAME(1)=0 007
0132 LASTPREFIX(1)=0 007
0133 LASTFACNUM=-1 007
0134 C 007
0135 C EXAMINE THE NEXT LINE IN THE MDL FILE 007
0136 C 007
0137 100 IF (GETLIN().EQ..FALSE.) GOTO 60 008
0138 IF (UNBLNK().EQ..' ') GOTO 100 008
0139 IF (UNBLNK().EQ.0) GOTO 100 008
0140 IF (GETIDENT().EQ..FALSE.) GOTO 90 008
0141 IF (GENCMP(%REF('$STRUCT'),NAME)) GOTO 200 008
0142 IF (GENCMP(%REF('C'),NAME)) GOTO 300 008
0143 IF (GENCMP(%REF('K'),NAME)) GOTO 300 008
0144 IF (GENCMP(%REF('V'),NAME)) GOTO 400 008
0145 IF (GENCMP(%REF('F'),NAME)) GOTO 100 008
0146 IF (GENCMP(%REF('S'),NAME)) GOTO 100 008
0147 IF (GENCMP(%REF('L'),NAME)) GOTO 100 009
0148 IF (GENCMP(%REF('M'),NAME)) GOTO 100 009
0149 IF (GENCMP(%REF('P'),NAME)) GOTO 100 009
0150 90 CALL ERROR(1,SYNTAX) 009
0151 GOTO 100 009
0152 009
0153 200 CALL STRUCT 009
0154 GOTO 70 009
0155 009
0156 300 CALL EVALC 009
0157 GOTO 100 010
```







```
0001 C
0002 C   CONSTRUCT THE FACILITIES ARRAY BY READING THE
0003 C   FILE 'SUBSYSIDS'
0004 C
0005 SUBROUTINE MAKSUBS
0006 INCLUDE 'SRC$:CVTMSGCOM'
0050 LOGICAL*1 FACNAM(MAXSYMSIZ)
0051
0052 DO 10 I=1,MAXFAC+1
0053 10 FACILITIES(1,I)=0
0054
0055 OPEN (UNIT=1,NAME='SUBSYSIDS',TYPE='OLD',READONLY,ERR=900)
0056
0057 100 READ(1,99,END=400) FACNUM,FACLEN,(FACNAM(I),I=1,FACLEN)
0058 99  FORMAT(15,0,120A1)
0059 IF (FACLEN.GT.MAXSYMSIZ-1) THEN
0060     FACNAM(MAXSYMSIZ)=0
0061     CALL ERROR(14,SUBNAMLONG)
0062 END IF
0063 FACNAM(FACLEN+1)=0
0064 CALL MOVNAM(FACNAM,FACILITIES(1,FACNUM+1))
0065 GOTO 100
0066
0067 400 CLOSE(UNIT=1)
0068     RETURN
0069
0070 900 CALL ERROR(15,FILNOTFND)
0071     RETURN
0072     END
```

GE1

PRO

ENT

VAR

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	190	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	26	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	136	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64900

ENTRY POINTS

Address	Type	Name
0-00000000		MAKSUBS

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000028	I*4	FACLEN	2-00000024	I*4	FACNUM
2-00000030	I*4	FILNOTFND	2-00000020	I*4	I	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG	2-0000002C	I*4	SUBNAMLONG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
2-00000000	L*1	FACNAM	32	(32)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
**	10	1-00000012	99'	0-00000030	100	0-000000AC	400	0-000000B5	900



1 7  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

0001  
0002  
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0049  
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C  
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C

```
OPEN THE FILE CONTAINING THE LIST OF FILES  
  
SUBROUTINE SETUPFILE  
INCLUDE 'SRC$:CVTMSGCOM'  
OPEN (UNIT=3,NAME='FILES',TYPE='OLD',READONLY,ERR=100)  
RETURN  
100 CALL ERROR(9,FILNOTFND)  
RETURN  
END
```

STR

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VAR

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	30	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	10	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	56	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64644

ENTRY POINTS

Address	Type	Name
0-00000000		SETUPFILE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	I*4	FILNOTFND	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
0-00000015	100

SETUPFILE

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15-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 11  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR		FOR\$OPEN

00C  
00C  
00C  
000  
000  
004  
005  
005  
005  
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005  
005  
005  
005

```
0001 C
0002 C OPEN THE NEXT FILE IN THE LIST OF FILES TO PROCESS
0003 C
0004 LOGICAL FUNCTION NEXTFILE*1
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 50 CLOSE (UNIT=1)
0050 NEXTFILE=.FALSE.
0051 99 READ(3,99,END=300) I,FSPEC
0052 99 FORMAT(Q,80A1)
0053 FSPEC(I+1)=0
0054 OPEN (UNIT=1,NAME=FSPEC,TYPE='OLD',READONLY,ERR=100)
0055 NEXTFILE=.TRUE.
0056 300 RETURN
0057 100 CALL FPROR(10,FILNOTFND)
0058 GOTC 50
0059 ENI
```

EVA  
PRC  
C  
C  
C  
ENT  
C  
VAR  
4  
4  
4  
ARR  
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C  
C  
C  
LAE  
C

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	109	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	10	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	80	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64747

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	NEXTFILE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000008	I*4	FILNOTFND	2-00000004	I*4	I
4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
0-00000009	50	1-00000004	99'	0-00000063	100	0-0000005E	300





```
0001 C
0002 C
0003 C
0004 SUBROUTINE GETMSG
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 TEXT(128)
0050 LOGICAL*1 GETNUM,GETIDENT,GENCMP,UNBLNK,IDENT
0051 LOGICAL*1 IDSTR(20)
0052 LOGICAL*1 VECT(7)
0053 LOGICAL*1 NEED BLANK
0054 LOGICAL*1 FACNAM(MAXSYMSIZ)
0055 LOGICAL*1 LITERAL_NAME(MAXSYMSIZ)
0056 C
0057 C
0058 C
0059 OUTPUT .LITERAL IF ':'MSG' NOT FOUND TO SIGNIFY MESSAGE DEFINITION
0060 CALL CONCAT(PREFIX,SYMBOL_NAME,LITERAL_NAME)
0061 COL=COL+1
0062 IF (.NOT.GETIDENT().OR..NOT.GENCMP(NAME,%REF('MSG')) THEN
0063     CALL CONCAT(PREFIX,%REF('FACILITY'),NAME)
0064     IF (IDENT(NAME,LITERAL_NAME)) RETURN
0065     CALL BUFFER(%REF(' .LITERAL '))
0066     CALL BUFFER(LITERAL_NAME)
0067     CALL BUFFER(%REF('= '))
0068     CALL BUFNUM(CODE)
0069     CALL OUTPUT_LINE
0070     RETURN
0071 END IF
0072 C
0073 C
0074 C
0075 IF THE FACILITY LINE HAS NOT YET BEEN OUTPUT, THEN
0076 OUTPUT IT NOW.
0077 C
0078 C
0079 C
0080 NEED BLANK=.FALSE.
0081 FACNUM=(CODE.AND.'0FFF0000'X)/2**16
0082 CALL MOVNAM(FACILITIES(1,FACNUM+1),FACNAM)
0083 IF (FACNUM EQ.LASTFACNUM.AND.IDENT(PREFIX,LASTPREFIX)) GOTO 20
0084 IF (IDENT(MACRO_NAME,%REF('SHR')) CALL MOVNAM(MACRO_NAME,FACNAM)
0085 CALL BUFFER(%REF(' .FACILITY '))
0086 CALL BUFFER(FACNAM)
0087 CALL BUFFER(%REF(', '))
0088 CALL BUFNUM(FACNUM)
0089 IF ((CODE.AND.'8000'X).EQ.0) CALL BUFFER(%REF(' /SHARED'))
0090 IF (CODE.GE.0) CALL BUFFER(%REF(' /SYSTEM'))
0091 CALL CONCAT(FACNAM,%REF('$ '),NAME)
0092 IF (.NOT.IDENT(NAME,PREFIX)) THEN
0093     CALL BUFFER(%REF(' /PREFIX='))
0094     CALL BUFFER(PREFIX)
0095 END IF
0096 IF (.NOT.IDENT(FACNAM,MACRO_NAME).OR.LENGTH(MACRO_SUFFIX).NE.0) THEN
0097     CALL BUFFER(%REF(' 7MACRO='))
0098     CALL BUFFER(%REF('$ '))
0099     CALL BUFFER(MACRO_NAME)
0100     IF (LENGTH(MACRO_SUFFIX).NE.0) THEN
0101         CALL BUFFER(MACRO_SUFFIX)
0102     ELSE
0103         CALL BUFFER(%REF('DEF'))
0104     END IF
0105 END IF
```

```

0101 CALL OUTPUT_LINE
0102 CALL MOVNAM(PREFIX, LASTPREFIX)
0103 LASTFACNUM=FACNUM
0104 CURNUM=1
0105 CURSEV=7
0106 NEED_BLANK=.TRUE.
0107 CONTINUE
20
C
C
0109 IF THE SEVERITY HAS CHANGED, OUTPUT A SEVERITY STATEMENT
C
0110 IF ((CODE.AND.7).NE.CURSEV) THEN
0111     CURSEV=CODE.AND.7
0112     IF (.NOT.NEED_BLANK) CALL OUTPUT_LINE
0113     CALL BUFFER(%REF('SEVERITY'))
0114     IF (CURSEV.EQ.0) CALL BUFFER(%REF('WARNING'))
0115     IF (CURSEV.EQ.1) CALL BUFFER(%REF('SUCCESS'))
0116     IF (CURSEV.EQ.2) CALL BUFFER(%REF('ERROR'))
0117     IF (CURSEV.EQ.3) CALL BUFFER(%REF('INFORMATIONAL'))
0118     IF (CURSEV.EQ.4) CALL BUFFER(%REF('FATAL'))
0119     IF (CURSEV.GE.5 .AND. CURSEV.LE.7) CALL BUFFER(%REF('?UNKNOWN?'))
0120     CALL OUTPUT_LINE
0121     NEED_BLANK=.TRUE.
0122 END IF
C
0124 IF THE MESSAGE NUMBER IS NOT PREV+1, THEN OUTPUT A .BASE STATEMENT
C
0125 IF ((CODE.AND.'7FF8'X)/2**3.NE.CURNUM) THEN
0126     CURNUM = (CODE.AND.'7FF8'X)/2**3
0127     IF (.NOT.NEED_BLANK) CALL OUTPUT_LINE
0128     CALL BUFFER(%REF('.BASE'))
0129     CALL BUFNUM(CURNUM)
0130     CALL OUTPUT_LINE
0131     NEED_BLANK=.TRUE.
0132 END IF
0133 CURNUM = CURNUM + 1
0134 IF (NEED_BLANK) CALL OUTPUT_LINE
0135 DO 50 I=1,7
0136     VECT(I)=0
0137     GOTO 200
0138     IF (UNBLNK().NE.',') GOTO 1000
0139     COL=COL+1
0140     IF (UNBLNK().EQ.'<') GOTO 800
0141     IF (GETIDENT()) GOTO 300
0142     CALL ERROR(11,BADMSGSYNTAX)
0143     GOTO 2000
0144     IF (GENCMP(NAME,%REF('IDENT')) GOTO 500
0145     IF (GENCMP(NAME,%REF('DETAIL')) GOTO 550
0146     IF (GENCMP(NAME,%REF('USERVAL')) GOTO 600
0147     IF (GENCMP(NAME,%REF('FAOCNT')) GOTO 650
0148     IF (GENCMP(NAME,%REF('LANG')) GOTO 700
0149     GOTO 250
0150     IF (UNBLNK().NE.'=') GOTO 250
0151     COL=COL+1
0152     IF (GETIDENT().EQ..FALSE.) GOTO 250
0153     VECT(7)=LENGTH(NAME)
0154
0155
0156
0157

```



GETMSG

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16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 18  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0215      CALL BUFFER(%REF('>'))
0216      GOTO 1030
0217 1020   CALL BUFFER(%REF(''))
0218      CALL BUFFER(TEXT)
0219      CALL BUFFER(%REF(''))
0220 1030   IF (VECT(2).NE.0) THEN
0221          CALL BUFFER(%REF('/FAO='))
0222          CALL BUFNUM(VECT(2))
0223      END IF
0224      IF (VECT(7).NE.0) THEN
0225          CALL BUFFER(%REF('/IDENT='))
0226          CALL BUFFER(IDSTP)
0227      END IF
0228      CALL OUTPUT_LINE
0229
0230 2000   RETURN
0231      END
```

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## PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	1323	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	211	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	764	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		66846

## ENTRY POINTS

Address	Type	Name
0-00000000		GETMSG

## VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-000000E4	I*4	BADMSGSYNTAX	4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL
6-00000088	I*4	CURNUM	6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-000000DC	I*4	FACNUM
2-000000E0	I*4	I	2-000000EC	I*4	IDFLAG	2-000000F0	I*4	IDTOOLONG	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-000000DB	L*1	NEED BLANK	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG	2-000000E8	I*4	RETURN	2-000000F4	I*4	TMPPTR			

## ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
2-0000009B	L*1	FACNAM	32	(32)
3-000000E4	L*1	FSPEC	80	(80)
2-00000080	L*1	IDSTR	20	(20)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
2-000000BB	L*1	LITERAL_NAME	32	(32)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)
2-00000000	L*1	TEXT	128	(128)
2-00000094	L*1	VECT	7	(7)



```
0001 C
0002 C   PROCESS MDL $STRUCT STATEMENT
0003 C
0004 SUBROUTINE STRUCT
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 GETIDENT,UNBLNK,GETNUM,GETLIN
0050 IF (GETIDENT().EQ..FALSE.) GOTO 100
0051 CALL MOVNAM(NAME,MACRO_NAME)
0052 MACRO_SUFFIX(')=0
0053 100 IF (UNBLNK().EQ.';' .OR.UNBLNK().EQ.0) GOTO 300
0054 IF (UNBLNK().NE.';' ) GOTO 200
0055 COL=COL+1
0056 IF (GETIDENT().EQ..FALSE.) GOTO 200
0057 CALL MOVNAM(NAME,MACRO_SUFFIX)
0058 IF (UNBLNK().EQ.';' .OR.UNBLNK().EQ.0) GOTO 300
0059 200 CALL ERROR(1,SYNTAX)
0060 300 IF (GETLIN().EQ..FALSE.) GOTO 800
0061 IF (UNBLNK().EQ.';' ) GOTO 300
0062 IF (UNBLNK().EQ.0) GOTO 300
0063 IF (UNBLNK().EQ.'E') GOTO 900
0064 IF (UNBLNK().EQ.'C') GOTO 500
0065 IF (UNBLNK().EQ.'K') GOTO 500
0066 IF (UNBLNK().EQ.'V') GOTO 600
0067 IF (UNBLNK().EQ.'F') GOTO 300
0068 IF (UNBLNK().EQ.'S') GOTO 300
0069 IF (UNBLNK().EQ.'L') GOTO 300
0070 IF (UNBLNK().EQ.'M') GOTO 300
0071 IF (UNBLNK().EQ.'P') GOTO 300
0072 CALL ERROR(7,UNRECOGNIZE)
0073 GOTO 300
0074
0075 500 COL=COL+1
0076 CALL EVALC
0077 GOTO 300
0078
0079 600 CALL SKIPV
0080 GOTO 300
0081
0082 800 CALL ERROR(8,MISSINGEND)
0083 RETURN
0084
0085 900 CALL BUFFER(%REF(' .END'))
0086 CALL OUTPUT_LINE
0087 RETURN
0088 END
```

SK

PR

EN

VA

AR

LA

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	372	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	18	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	92	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		65030

ENTRY POINTS

Address	Type	Name
0-00000000		STRUCT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	L*1	GETNUM	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-0000000C	I*4	MISSINGEND	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG	2-00000004	I*4	SYNTAX	2-00000008	I*4	UNRECOGNIZE			

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-00000023	100	0-0000007C	200	0-00000084	300	0-00000141	500	0-00000151	600	0-0000015B	800
0-00000164	900										





K 8  
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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004
0005 SUBROUTINE EVALC
0006 INCLUDE 'SRC$:CVTMSGCOM'
0007 LOGICAL*1 GENCMP,UNBLNK
0008 IF (UNBLNK().EQ.'<') GOTO 100
0009 CALL GETCVAL
0010 RETURN
0011 100 COL=COL+1
0012 CALL GETCLST
0013 RETURN
0014 END
```

ER

01  
01  
01  
01  
01  
01

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	43	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	12	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64603

ENTRY POINTS

Address	Type	Name
0-00000000		EVALC

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	L*1	GENCMP	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
0-0000001D	100

EVALC

M 8  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

ER

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	GETCLST		GETCVAL	L*1	UNBLNK

FU



PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	422	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	24	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	176	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		65170

ENTRY POINTS

Address	Type	Name
0-00000000		GETCLST

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000000	I*4	BASE	4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL
6-00000088	I*4	CURNUM	6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000004	I*4	INCR
4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM	2-00000008	I*4	NAMTOOLONG	2-00000014	I*4	NOCLOSEANGLE
2-00000010	I*4	NONUMBER	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-0000000C	I*4	SYNTAX									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-0000002B	100	0-0000007C	200	0-00000084	250	0-000000D0	400	0-000000E9	500	0-000000F1	700
0-0000013E	800	0-0000016B	820	0-00000176	850	**	900	0-0000019C	1500	0-000001A5	1600

GETCLST

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name		
1*4	CONCAT LENGTH		ERROR MOVNAM	L*1 L*1	GETIDENT UNBLNK	L*1	GETLIN		GETMSG	L*1	GETNUM

```
0001 C
0002 C
0003 C
0004 SUBROUTINE GETCVAL
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 GETIDENT,UNBLNK,GETNUM
0050 CALL CONCAT(MACRO_NAME,XREF('SC '),PREFIX)
0051 IF (GETIDENT().EQ..FALSE.) GOTO 100
0052 CALL MOVNAM(NAME,SYMBOL_NAME)
0053 IF (UNBLNK().NE.' ') GOTO 100
0054 COL=COL+1
0055 IF (GETNUM().EQ..FALSE.) GOTO 100
0056 CODE=NUM
0057 IF (UNBLNK().NE.';' .AND.UNBLNK().NE.0) GOTO 100
0058 CALL GETMSG
0059 RETURN
0060 100 CALL ERROR(1,SYNTAX)
0061 RETURN
0062 END
```

0001  
0002  
0003  
0004  
0005  
0049  
0050  
0051  
0052  
0053  
0054  
0055  
0056  
0057  
0058  
0059  
0060  
0061  
0062



PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	121	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	8	PIC CON REL LCL SHR NOEXE RD NCWRT LONG
2 \$LOCAL	52	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVP REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64729

ENTRY POINTS

Address	Type	Name
0-00000000		GETCVAL

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG	2-00000000	I*4	SYNTAX

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
0-00000070	100

GE  
 PR  
 EN  
 VA  
 AR  
 LA

GETCVAL

F 9  
16-Sep-1984 02:16:11  
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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name		
L*1	CONCAT UNBLNK		ERROR	L*1	GETIDENT		GETMSG	L*1	GETNUM		MOVNAM



PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	46	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	24	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64622

ENTRY POINTS

Address	Type	Name
0-00000000		SKIPV

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	FRRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
2-00000000	I*4	NOCLOSEANGLE	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label
0-00000009	100	0-00000025	300

GE  
 PR  
 EN  
 VA  
 AR  
 LA

SKIPV

1 9  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	ERROR	L*1	GETLIN	L*1	UNBLNK

GE  
FU

```
0001 C
0002 C OUTPUT AN ERROR MESSAGE
0003 C
0004 SUBROUTINE ERROR(MSGID)
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 C OUTPUT CONTENTS OF 'LINE' VIA PRINT
0050 C AND ERROR MESSAGE
0051 TYPE 99
0052 99 FORMAT('%SYSMSG-E-')
0053 GOTO (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15),MSGID
0054 TYPE 1000
0055 GOTO 200
0056 1000 FORMAT('+error in error processing')
0057 1 TYPE 101
0058 GOTO 200
0059 101 FORMAT('+syntax error')
0060 2 TYPE 102
0061 GOTO 200
0062 102 FORMAT('+symbol or string too long')
0063 3 TYPE 103
0064 GOTO 200
0065 103 FORMAT('+missing value')
0066 4 TYPE 104
0067 GOTO 200
0068 104 FORMAT('+line too long')
0069 5 TYPE 105
0070 GOTO 200
0071 105 FORMAT('+start or increment value error')
0072 6 TYPE 106
0073 GOTO 200
0074 106 FORMAT('+missing close angle bracket')
0075 7 TYPE 107
0076 GOTO 200
0077 107 FORMAT('+unrecognizable statement type')
0078 8 TYPE 108
0079 GOTO 200
0080 108 FORMAT('+missing end statement')
0081 9 TYPE 109
0082 GOTO 210
0083 109 FORMAT('+can''t open FILES.DAT')
0084 10 TYPE 110,FSPEC
0085 GOTO 210
0086 110 FORMAT('+can''t open ',80A1)
0087 11 TYPE 111
0088 GOTO 200
0089 111 FORMAT('+syntax error in message definition')
0090 12 TYPE 112
0091 GOTO 200
0092 112 FORMAT('+message identifier too long')
0093 13 TYPE 113
0094 GOTO 200
0095 113 FORMAT('+message identified by value is already in use')
0096 14 TYPE 114
0097 GOTO 200
0098 114 FORMAT('+facility name too long')
0099 15 TYPE 115
0100 GOTO 210
```

```
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
```

ERROR

K 9  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

```
0101 115 FORMAT('+can't open SRCDS:[1,2]SUBSYSIDS.DAT')
0102 200 TYPE 97,FSPEC
0103 97  FORMAT(1X,'in file ',80a1)
0104 TYPE 98,(LINE(K),K=1,LENGTH(LINE))
0105 98  FORMAT(1X,120A1)
0106 210 ERRCNT=ERRCNT+1
0107 END
```

GE  
PR  
EN  
VA  
AR  
A  
A  
LA





ERROR

M 9  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

1-000000BB 107'	1-000000DC 108'	1-000000F5 109'	1-0000010D 110'	1-00000120 111'	1-00000146 112'
1-00000165 113'	1-00000196 114'	1-000001B0 115'	0-000001E8 200	0-00000248 210	1-0000000E 1000'

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name  
I\*4 LENGTH

ID  
PR  
EN  
VA  
AR  
A  
A  
LA





GETNUM

C 10  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR	L*1	GETVAL





GETVAL

F 10  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR	L*1	UNBLNK

0001  
0002  
0003  
0004  
0005  
0049  
0050  
0051  
0052  
0053  
0054  
0055  
0056  
0057  
0058  
0059  
0060  
0061  
0062  
0063  
0064  
0065  
0066  
0067  
0068

C  
C  
C  
  
  
  
  
  
  
  
  
100  
C  
  
  
200  
  
400

```
GET THE NEXT STRING TOKEN IN THE LINE, FALSE IF NONE

LOGICAL FUNCTION GETIDENT*1
INCLUDE 'SRCS:CVTMSGCOM'
LOGICAL*1 UNBLNK
I=1
GETIDENT=.FALSE.
IF (UNBLNK().EQ.''.OR.UNBLNK().EQ.0) GOTO 400
DO 200 COL=COL,120
IF (LINE(COL).EQ.'$') GOTO 100
IF (LINE(COL).EQ.' ') GOTO 100
IF ((LINE(COL).GE.'A').AND.(LINE(COL).LE.'Z')) GOTO 100
IF (GETIDENT.EQ..FALSE.) GOTO 400
IF ((LINE(COL).LT.'0').OR.(LINE(COL).GT.'9')) GOTO 400
GETIDENT=.TRUE.
TRUNCATE ANY TOKENS GREATER THAN MAXTOKSIZ
IF (I.GE.MAXTOKSIZ) GOTO 200
NAME(I)=LINE(COL)
I=I+1
CONTINUE
CALL ERROR(4,TOOLONG)
NAME(I)=0
RETURN
END
```

OC  
OC  
OC  
OC  
OC  
OC  
OC  
OC  
OC  
OC  
OC  
OC



PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	199	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	32	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64783

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GETIDENT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000004	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000008	I*4	TOOLONG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label
0-0000007F	100	0-000000A1	200	0-000000B8	400

GETIDENT

I 10  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 48  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR	L*1	UNBLNK

MC

LA

FU

```
0001 C  
0002 C  
0003 C  
0004 FUNCTION TO COMPARE 2 STRINGS GENERICALLY  
0005 LOGICAL FUNCTION GENCMP*1(STRNG1,STRNG2)  
0006 LOGICAL*1 STRNG1(100),STRNG2(100)  
0007 GENCMP=.FALSE.  
0008 IF (STRNG1(1).EQ.0.OR.STRNG2(1).EQ.0) GOTO 300  
0009 DO 100 I=1,100  
0010 IF (STRNG1(I).EQ.0.OR.STRNG2(I).EQ.0) GOTO 200  
0011 IF (STRNG1(I).NE.STRNG2(I)) GOTO 300  
0012 100 CONTINUE  
0013 200 GENCMP=.TRUE.  
0014 300 RETURN  
END
```

GENCMP

K 10  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 50

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	92	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	48	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	140	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GENCMP

VARIABLES

Address	Type	Name
2-00000004	I*4	I

ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-00000004	L*1	STRNG1	100	(100)
AP-00000008	L*1	STRNG2	100	(100)

LABELS

Address	Label	Address	Label	Address	Label
**	100	0-00000053	200	0-00000057	300

L 10  
16-Sep-1984 02: 6:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 51  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004 LOGICAL FUNCTION IDENT*1(STRNG1,STRNG2)
0005 LOGICAL*1 STRNG1(100),STRNG2(100)
0006 IDENT=.FALSE.
0007 DO 100 I=1,100
0008 IF (STRNG1(I).NE.STRNG2(I)) GOTO 300
0009 IF (STRNG1(I).EQ.0.AND.STRNG2(I).EQ.0) GOTO 200
0010 IF (STRNG1(I).EQ.0.OR.STRNG2(I).EQ.0) GOTO 300
0011 100 CONTINUE
0012 200 IDENT=.TRUE.
0013 300 RETURN
0014 END
```

IDENT

M 10  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 52  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	92	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	48	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	140	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	IDENT

VARIABLES

Address	Type	Name
2-00000004	I*4	I

ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-00000004	L*1	STRNG1	100	(100)
AP-00000008	L*1	STRNG2	100	(100)

LABELS

Address	Label	Address	Label	Address	Label
**	100	0-00000053	200	0-00000057	300

```
0001 C
0002 C
0003 C
0004 SUBROUTINE CONCAT(STRNG1,STRNG2,STRNG3)
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 STRNG1(100),STRNG2(100),STRNG3(100),STRNG4(100)
0050 DO 100 I=1,99
0051 STRNG4(I)=STRNG2(I)
0052 IF (STRNG4(I).EQ.0) GOTO 200
0053 100 CONTINUE
0054 CALL ERROR(2,TOOLONG)
0055 GOTO 600
0056 200 DO 300 I=1,99
0057 STRNG3(I)=STRNG1(I)
0058 IF (STRNG3(I).EQ.0) GOTO 400
0059 300 CONTINUE
0060 CALL ERROR(2,TOOLONG)
0061 GOTO 600
0062 400 DO 500 J=1,99
0063 STRNG3(I-1+J)=STRNG4(J)
0064 IF (STRNG3(I-1+J).EQ.0) GOTO 600
0065 500 CONTINUE
0066 CALL ERROR(2,TOOLONG)
0067 600 RETURN
0068 END
```





CONCAT

C 11  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 55  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
**	100	0-0000004E	200	**	300	0-00000075	400	**	500	0-000000A3	600

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name
	ERROR

BU

PR

EN

VAI

ARI

AI

LAI

D 11  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 56  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C RETURN THE LENGTH OF AN ASCII STRING
0003 C
0004 INTEGER FUNCTION LENGTH(STRNG)
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 STRNG(100)
0050 DO 100 LENGTH=1,100
0051 IF (STRNG(LENGTH).EQ.0) GOTO 200
0052 100 CONTINUE
0053 CALL ERROR(2,TOOLONG)
0054 200 LENGTH=LENGTH-1
0055 RETURN
0056 END
```

BU

FU



LENGTH

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name
	ERROR

F 11  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 58  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

BU  
PR  
EN  
VA  
AR  
LA  
FU

```
0001 C  
0002 C MOVE AN ASCIZ STRING TO ANOTHER BUFFER  
0003 C  
0004 SUBROUTINE MOVNAM(STRNG1,STRNG2)  
0005 INCLUDE 'SRC$:CVTMSGCOM'  
0049 LOGICAL*1 STRNG1(100),STRNG2(100)  
0050 DO 100 I=1,100  
0051 STRNG2(I)=STRNG1(I)  
0052 IF (STRNG2(I).EQ.0) GOTO 200  
0053 100 CONTINUE  
0054 CALL ERROR(2,TOOLONG)  
0055 200 RETURN  
0056 END
```

00  
00  
00  
00  
00  
00  
00  
00  
00  
00

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	69	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	60	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64681

ENTRY POINTS

Address	Type	Name
0-00000000		MOVNAM

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000004	I*4	TOOLONG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
AP-00000004	L*1	STRNG1	100	(100)
AP-00000008	L*1	STRNG2	100	(100)
3-000000C4	L*1	SYMBOL_NAME	32	(32)



J 11  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 62  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C SEARCH FOR THE NEXT NONBLANK CHARACTER
0003 C
0004 LOGICAL FUNCTION UNBLNK*1
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 IF (COL.GT.120) GOTO 150
0050 DO 100 COL=COL,120
0051 IF (LINE(COL).GE.'11.AND.LINE(COL).LE.'14) GOTO 100
0052 IF (LINE(COL).NE.' ') GOTO 200
0053 100 CONTINUE
0054 150 COL=121
0055 200 UNBLNK=LINE(COL)
0056 RETURN
0057 END
```

OP

VA

AR

LA

FU

CO



## PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	92	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	4	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64644	

## ENTRY POINTS

Address	Type	Name
0-00000000	L*1	UNBLNK

## VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG			

## ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

## LABELS

Address	Label	Address	Label	Address	Label
0-0000003E	100	0-00000047	150	0-0000004C	200

```
0001 C
0002 C
0003 C
0004 LOGICAL*1 FUNCTION GETLIN
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 UNBLNK
0050 READ(1,99,END=100) LEN,(LINE(K),K=1,LEN)
0051 99 FORMAT(Q,120A1)
0052 LINE(LEN+1)=0
0053 COL=1
0054 GETLIN=.TRUE.
0055 C
0056 C
0057 C
0058 IF (UNBLNK().EQ.';' .OR. UNBLNK().EQ.0) THEN
0059     BIAS=OUTCOL+1-COL
0060     CALL BUFFER(LINE)
0061     IF (UNBLNK().EQ.';') OUTLINE(BIAS+COL) = '!'
0062     CALL OUTPUT_LINE
0063 END IF
0064 RETURN
0065
0066 100 GETLIN=.FALSE.
0067 RETURN
0068 END
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	195	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	6	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	32	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64781

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GETLIN

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-0000000C	I*4	BIAS	4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL
6-00000088	I*4	CURNUM	6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX
2-00000008	I*4	K	6-00000090	I*4	LASTFACNUM	2-00000004	I*4	LEN	4-00000000	I*4	NUM
6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG						

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label
1-00000000	99'	0-000000C0	100

GETLIN

N 11  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	BUFFER		OUTPUT_LINE	L*1	UNBLNK

L1  
VO  
:  
:  
:  
:  
:  
:  
:  
:  
:

```
0001 C
0002 C
0003 C
0004 SUBROUTINE BUFFER(String)
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 STRING(128)
0050 DO 10 I=1,128
0051 IF (STRING(I).EQ.0) GOTO 100
0052 IF (OUTCOL.GT.132) GOTO 200
0053 OUTCOL = OUTCOL+1
0054 OUTLINE(OUTCOL)=STRING(I)
0055 CONTINUE
0056 RETURN
0057 CALL ERROR(4,LINE_OVERFLOW)
0058 RETURN
0059 END
```

10  
100  
200

.....

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	88	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64680

ENTRY POINTS

Address	Type	Name
0-00000000		BUFFER

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-00000004	I*4	LINE_OVERFLOW	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
AP-00000004	L*1	STRING	128	(128)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label
**	10	0-0000004E	100	0-0000004F	200

BUFFER

D 12  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 69  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.F07:1

LIS  
V04

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name
	ERROR

.....

```
0001 C
0002 C
0003 C
0004 SUBROUTINE BUFNUM(NUMBER)
0005 LOGICAL*1 CHARS(9)
0006 CHARACTER*8 STRING
0007 EQUIVALENCE (STRING(1:1),CHARS)
0008 CALL FOR$CNV_OUT_I(%VAL(NUMBER),STRING)
0009 CHARS(9)=0
0010 DO 10 I=1,8
0011 IF (CHARS(I).NE.' ') GOTO 20
0012 CONTINUE
0013 CALL BUFFER(%REF(CHARS(I)))
0014 RETURN
0015 END
```



PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	60	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	44	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	104	

ENTRY POINTS

Address	Type	Name
0-00000000		BUFNUM

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name
2-0000000C	I*4	I	AP-00000004a	I*4	NUMBER	2-00000000		CHAR STRING

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	L*1	CHARS	9	(9)

LABELS

Address	Label	Address	Label
**	10	0-0000002A	20

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	BUFFER		FOR\$CNV_OUT_I

G 12  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 72  
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004 SUBROUTINE OUTPUT LINE
0005 INCLUDE 'SRCS:CVTMSG.COM'
0049 WRITE(2,100)(OUTLINE(K),K=1,OUTCOL)
0050 FORMAT(128A1)
0051 OUTCOL=0
0052 RETURN
0053 END
```

LI:  
VO:

.....

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	75	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	6	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	4	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		64633

ENTRY POINTS

Address	Type	Name
0-00000000		OUTPUT_LINE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	2-00000000	I*4	K
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
1-00000000	100'

```

0001 C
0002 C OPEN THE OUTPUT FILE
0003 C
0004 SUBROUTINE OPEN_OUTPUT
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 LOGICAL*1 STRING(128)
0050 CLOSE (UNIT=2)
0051 CALL MOVNAM(FSPEC,STRING)
0052 DO 10 POS=LENGTH(STRING),1,-1
0053 IF (STRING(POS).EQ.'.') GOTO 20
0054 10 CONTINUE
0055 20 IF (STRING(POS).EQ.'.') CALL MOVNAM(%REF('.MSG'),STRING(POS))
0056 DO 30 POS=POS,1,-1
0057 IF (STRING(POS).EQ.'].OR.STRING(POS).EQ.'].OR.STRING(POS).EQ.'].OR.STRING(POS).EQ.'].') GOTO 40
0058 30 CONTINUE
0059 40 POS=POS+1
0060 C THE OUTPUT FILE WILL BE PUT IN THE DEFAULT DIRECTORY, SAME NAME, .MSG
0061 OPEN(UNIT=2,NAME=STRING(POS),TYPE='NEW',CARRIAGECONTROL='LIST',ERR=100)
0062 OUTCOL=0
0063 RETURN
0064 100 CALL ERROR(9,FILNOTFND)
0065 RETURN
0066 END
0067

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	158	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	9	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	220	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64935	

ENTRY POINTS

Address	Type	Name
0-00000000		OPEN_OUTPUT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000084	I*4	FILNOTFND	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000080	I*4	POS									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
2-00000000	L*1	STRING	128	(128)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
**	10	0-00000036	20	**	30	0-00000077	40
						0-00000095	100

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name
	ERROR		FOR\$CLOSE		FOR\$OPEN	I*4	LENGTH
							MOVNAM

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:CVTMSG/OBJ=OBJ\$:CVTMSG MSRC\$:CVTMSG  
 /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)  
 /DEBUG=(NOSYMBOLS,TRACEBACK)  
 /STANDARD=(NOSYNTAX,NOSOURCE FORM)  
 /SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)  
 /F77 /NOG\_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD\_LINES /NOCROSS\_REFERENCE /NOMACHINE\_CODE /CONTINUATIONS=19

OPEN\_OUTPUT

K 12  
16-Sep-1984 02:16:11  
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

LI  
VO

COMPILATION STATISTICS

Run Time: 24.98 seconds  
Elapsed Time: 88.10 seconds  
Page Faults: 238  
Dynamic Memory: 212 pages



**MSGINT MDL**

**SQL GENREQ REQ**

**MSGDEF SQL**

**CUTMSGCOM FOR**

**CUTMSG LIS**

**MSG REQ**

**MAIN LIS**

**LISTING LIS**

The image displays a grid of 20 columns and 14 rows of VAX/VMS system messages. The leftmost column (0251) contains vertical bars representing character sets. The remaining columns contain various system messages, including "MSGINT MDL", "SQL GENREQ REQ", "MSGDEF SQL", "CUTMSGCOM FOR", "CUTMSG LIS", "MSG REQ", "MAIN LIS", and "LISTING LIS". Each message block is preceded by a header with the number "0251" and a set of vertical bars.