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  JJJ     000000000   BBBBBBBBBBB    CCCCCCCCCCC  TTTTTTTTTTTTTTT  LLL
  JJJ     00C000000   BBBBBBBBBBB    CCCCCCCCCCC  TTTTTTTTTTTTTTT  LLL
  JJJ     000000000   BBBBBBBBBBB    CCCCCCCCCCC  TTTTTTTTTTTTTTT  LLL
  JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
  JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
  JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
  JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
  JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
  JJJ   000     000   BBBBBBBBBBB  CCC                 TTT         LLL
  JJJ   000     000   BBBBBBBBBBB  CCC                 TTT         LLL
  JJJ   000     000   BBBBBBBBBBB  CCC                 TTT         LLL
JJJ JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
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JJJ JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
JJJ JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
JJJ JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
JJJ JJJ   000     000   BBB     BBB  CCC                 TTT         LLL
 JJJJJJJJ   000000000   BBBBBBBBBBB  CCCCCCCCCCC        TTT  LLLLLLLLLLLLLL
 JJJJJJJJ   000000000   BBBBBBBBBBB  CCCCCCCCCCC        TTT  LLLLLLLLLLLLLL
 JJJJJJJJ   000000000   BBBBBBBBBBB  CCCCCCCCCCC        TTT  LLLLLLLLLLLLLL
```

BROADCAST

LIST

```
    1    0001   0  MODULE BROADCAST(%TITLE 'Broadcast message to user'
    2    0002   0                  IDENT = 'V04-000'
    3    0003   0                  ) =
    4    0004   1  BEGIN
    5    0005   1
    6    0006   1  !
    7    0007   1  !************************************************************************
    8    0008   1  !*                                                                      *
    9    0009   1  !*    COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                           *
   10    0010   1  !*    DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.            *
   11    0011   1  !*    ALL RIGHTS RESERVED.                                              *
   12    0012   1  !*                                                                      *
   13    0013   1  !*    THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
   14    0014   1  !*    ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE *
   15    0015   1  !*    INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  C HER *
   16    0016   1  !*    COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
   17    0017   1  !*    OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *
   18    0018   1  !*    TRANSFERRED.                                                      *
   19    0019   1  !*                                                                      *
   20    0020   1  !*    THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *
   21    0021   1  !*    AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *
   22    0022   1  !*    CORPORATION.                                                      *
   23    0023   1  !*                                                                      *
   24    0024   1  !*    DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS *
   25    0025   1  !*    SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.           *
   26    0026   1  !*                                                                      *
   27    0027   1  !*                                                                      *
   28    0028   1  !************************************************************************
   29    0029   1  !
   30    0030   1
   31    0031   1  !++
   32    0032   1  ! FACILITY:
   33    0033   1  !        Job controller.
   34    0034   1  !
   35    0035   1  ! ABSTRACT:
   36    0036   1  !        This module contains the routines that interface to broadcast.
   37    0037   1  !
   38    0038   1  ! ENVIRONMENT:
   39    0039   1  !        VAX/VMS user and kernel mode.
   40    0040   1  !--
   41    0041   1  !
   42    0042   1  ! AUTHOR: M. Jack, CREATION DATE: 16-Feb-1982
   43    0043   1  !
   44    0044   1  ! MODIFIED BY:
   45    0045   1  !
   46    0046   1  !        V03-004 MLJ0115         Martin L. Jack, 30-Jul-1983  14:37
   47    0047   1  !                Add broadcast class.
   48    0048   1  !
   49    0049   1  !        V03-003 MLJ0114         Martin L. Jack, 23-Jun-1983  4:57
   50    0050   1  !                Changes for job controller baselevel.
   51    0051   1  !
   52    0052   1  !        V03-002 MLJ0113         Martin L. Jack, 26-May-1983  21:06
   53    0053   1  !                Changes for job controller baselevel.
   54    0054   1  !
   55    0055   1  !        V03-001 MLJ0109         Martin L. Jack, 14-Apr-1983  12:45
   56    0056   1  !                Changes for job controller baselevel.
   57    0057   1  !
```

; 58   0058 1 !**

```
60    0059  1 REQUIRE 'SRC$:JOBCTLDEF';
61    1100  1
62    1101  1
63    1102  1 FORWARD ROUTINE
64    1103  1         BROADCAST_MESSAGE:              NOVALUE;
65    1104  1
66    1105  1
67    1106  1 EXTERNAL ROUTINE
68    1107  1         CREATE_SRQ_RECORD;
```

```
 70    1108  1 GLOBAL ROUTINE BROADCAST_MESSAGE(SYSID,USERNAME,LENGTH,ADDRESS): NOVALUE=
 71    1109  1
 72    1110  1 !++
 73    1111  1 !
 74    1112  1 ! FUNCTIONAL DESCRIPTION:
 75    1113  1 !       This routine issues a broadcast to all processes with a specified
 76    1114  1 !       username.
 77    1115  1 !
 78    1116  1 ! INPUT PARAMETERS:
 79    1117  1 !       SYSID           - Pointer to system ID of receiver.
 80    1118  1 !       USERNAME        - Pointer to username of receiver.
 81    1119  1 !       LENGTH          - Descriptor for message.
 82    1120  1 !       ADDRESS         -
 83    1121  1 !
 84    1122  1 ! IMPLICIT INPUTS:
 85    1123  1 !       NONE
 86    1124  1 !
 87    1125  1 ! OUTPUT PARAMETERS:
 88    1126  1 !       NONE
 89    1127  1 !
 90    1128  1 ! IMPLICIT OUTPUTS:
 91    1129  1 !       NONE
 92    1130  1 !
 93    1131  1 ! ROUTINE VALUE:
 94    1132  1 !       NONE
 95    1133  1 !
 96    1134  1 ! SIDE EFFECTS:
 97    1135  1 !       Messages broadcast to terminals.
 98    1136  1 !
 99    1137  1 !--
100    1138  1
101    1139  2 BEGIN
102    1140  2 MAP
103    1141  2         SYSID:          REF BBLOCK,            ! Pointer to system ID
104    1142  2         USERNAME:       REF BBLOCK;            ! Pointer to username
105    1143  2
106    1144  2
107    1145  2 ! If this is a remote user, enter a remote request.
108    1146  2 !
109    1147  3 IF SYSID_NEQ(THIS_SYSID, .SYSID)
110    1148  2 THEN
111    1149  3     BEGIN
112    1150  3     CREATE_SRQ_RECORD(
113    1151  3         SRQ$K_BROADCAST_MESSAGE,
114    1152  3         .SYSID, .USERNAME, .LENGTH, .ADDRESS);
115    1153  3     END
116    1154  2 ELSE
117    1155  3     BEGIN
118    1156  3     LOCAL
119    1157  3         MSG_DESC:       VECTOR[2],     ! Descriptor for message
120    1158  3         USER_DESC:      VECTOR[2];     ! Descriptor for username
121    1159  3
122    1160  3
123    1161  3     ! Initialize descriptors and issue the $BRKTHRU.
124    1162  3     !
125    1163  3     MSG_DESC[0] = .LENGTH;
126    1164  3     MSG_DESC[1] = .ADDRESS;
```

BROADCAST   Broadcast message to user   K 9
V04-000   15-Sep-1984 23:56:16   VAX-11 Bliss-32 V4.0-742   Page 5   BUF
                                                             14-Sep-1984 12:36:57   [JOBCTL.SRC]BROADCAST.B32;1   (3)   V04

                                                                                                                                :

```
:   127          1165  3          USER_DESC[0] = 12;
:   128          1166  3          USER_DESC[1] = .USERNAME;
:   129     P 1167  3          $BRKTHRU(
:   130     P 1168  3              MSGBUF=MSG_DESC,
:   131     P 1169  3              SENDTO=USER_DESC,
:   132     P 1170  3              SNDTYP=BRK$C_USERNAME,
:   133     P 1171  3              REQID=BRK$C_QUEUE,
:   134          1172  3              TIMOUT=10);
:   135          1173  2          END;
:   136          1174  1 END;
```

```
                    .TITLE   BROADCAST Broadcast message to user
                    .IDENT   \V04-000\

                    .PSECT   COMMON,NOEXE,   OVR,2

00000 DIAG_STORAGE_BASE:
                    .BLKB    0
00000 DIAG_TRACE:
                    .BLKB    96
00060 DIAG_COUNT:
                    .BLKB    96
000C0 DIAG_FLAGS:
                    .BLKB    4
000C4 WORK_AREA:
                    .BLKB    44
000F0 SNDJBC_COUNT:
                    .BLKB    132
00174 GETQUI_COUNT:
                    .BLKB    40
0019C SNDACC_COUNT:
                    .BLKB    28
001B8 SNDSMB_COUNT:
                    .BLKB    72
00200 DIAG_STORAGE_END:
                    .BLKB    0
00200 FLAGS:   .BLKB    4
00204 IMAGE_DUMP_STSFLG:
                    .BLKB    4
00208 THIS_SYSID:
                    .BLKB    6
0020E          .BLKB    2
00210 CUR_TIME:
                    .BLKB    8
00218 HOURLY_TIME:
                    .BLKB    8
00220 HOURLY_PARAMS:
                    .BLKB    20
00234 SYMBIONT_COUNT:
                    .BLKB    4
00238 QUEUE_REFERENCE_COUNT:
                    .BLKB    4
0023C MBX_MESSAGE_COUNT:
                    .BLKB    4
00240 MBX:     .BLKB    4
00244 MBX_END:.BLKB    4
```

```
00248 MEMORY_FREE_QUEUES:
                .BLKB   40
00270 NONAST_WORK_QUEUE:
                .BLKB   8
00278 BCB_FREE_LIST:
                .BLKB   4
0027C BCB_ACTIVE_LIST:
                .BLKB   4
00280 GQL_FREE_LIST:
                .BLKB   4
00284 GQL_ACTIVE_LIST:
                .BLKB   4
00288 OPEN_GETQUI_LIST:
                .BLKB   4
0028C PROCESS_DATA_LIST:
                .BLKB   4
00290 SYMBIONT_CONTROL:
                .BLKB   4
00294 SPARE_AREA:
                .BLKB   12
002A0 REMOTE_REQUEST_LKSB:
                .BLKB   8
002A8 QUEUE_FILE_LKSB:
                .BLKB   8
002B0 QUEUE_LOCK_LKSB:
                .BLKB   8
002B8 RSP:     .BLKB   8
002C0 JBC_PRIORITY:
                .BLKB   4
002C4 JBC_PRIVILEGES:
                .BLKB   8
002CC JBC_QUOTAS:
                .BLKB   66
0030E           .BLKB   2
00310 JBC_UIC:.BLKB   4
00314 QUEUE_FAB:
                .BLKB   80
00364 QUEUE_RAB:
                .BLKB   68
003A8 QUEUE_NAM:
                .BLKB   96
00408 QUEUE_XAB:
                .BLKB   88
00460 QUEUE_RSA:
                .BLKB   255
0055F           .BLKB   1
00560 QUEUE_ALQ:
                .BLKB   4
00564 QUEUE_MBF:
                .BLKB   1
00565           .BLKB   3
00568 ACCOUNTING_FABS:
                .BLKB   8
00570 ACCOUNTING_RABS:
                .BLKB   8
00578 ACCOUNT_FAB_A:
                .BLKB   80
```

```
005C8 ACCOUNT_RAB_A:
                 .BLRB    68
0060C ACCOUNT_NAM_A:
                 .BLRB    96
0066C ACCOUNT_RSA_A:
                 .BLRB    255
0076B            .BLKB    1
0076C ACCOUNT_FAB_B:
                 .BLRB    80
007BC ACCOUNT_RAB_B:
                 .BLRB    68
00800 ACCOUNT_NAM_B:
                 .BLRB    96
00860 ACCOUNT_RSA_B:
                 .BLRB    255
0095F            .BLKB    1
00960 DIAG_FAB:
                 .BLKB    80
009B0 DIAG_RAB:
                 .BLKB    68
009F4 MBX_CHAN:
                 .BLKB    4
009F8 MBX_IOSB:
                 .BLKB    8
00A00 MBX_BUFFER:
                 .BLKB    1024
00E00 VALUE_STORAGE_BASE:
                 .BLKB    0
00E00 ITEM_PRESENT:
                 .BLKB    32
00E20 VALUE_GETQUI_BASE:
                 .BLKB    0
00E20 VALUE_ACCOUNTING_MESSAGE:
                 .BLKB    6
00E26 VALUE_ACCOUNTING_TYPES:
                 .BLKB    4
00E2A VALUE_AFTER_TIME:
                 .BLRB    8
00E32 VALUE_ALIGNMENT_PAGES:
                 .BLKB    1
00E33 VALUE_BASE_PRIORITY:
                 .BCKB    1
00E34 VALUE_BATCH_INPUT:
                 .BLRB    6
00E3A VALUE_BATCH_OUTPUT.
                 .BLRB    10
00E44 VALUE_BUFFER_COUNT:
                 .BLKB    1
00E45 VALUE_CHARACTERISTIC_NAME:
                 .BLKB    6
00E4B VALUE_CHARACTERISTIC_NUMBER:
                 .BLKB    1
00E4C VALUE_CHARACTERISTICS:
                 .BLKB    16
00E5C VALUE_CHECKPOINT_DATA:
                 .BLKB    8
00E62 VALUE_CLI:
```

```
                                           .BLKB   6
                        00E68 VALUE_CPU_DEFAULT:
                                           .BLKB   4
                        00E6C VALUE_CPU_LIMIT:
                                           .BLKB   4
                        00E70 VALUE_DESTINATION_QUEUE:
                                           .BLKB   8
                        00E78 VALUE_DEVICE_NAME:
                                           .BLKB   6
                        00E7E VALUE_ENTRY_NUMBER:
                                           .BLKB   4
                        00E82 VALUE_ENTRY_NUMBER_OUTPUT:
                                           .BLKB   10
                        00E8C VALUE_EXTEND_QUANTITY:
                                           .BLKB   2
                        00E8E VALUE_FILE_COPIES:
                                           .BLKB   1
                        00E8F VALUE_FILE_IDENTIFICATION:
                                           .BLKB   36
                        00EB3 VALUE_FILE_SETUP_MODULES:
                                           .BLKB   6
                        00EB9 VALUE_FILE_SPECIFICATION:
                                           .BLKB   6
                        00EBF VALUE_FIRST_PAGE:
                                           .BLKB   4
                        00EC3 VALUE_FORM_DESCRIPTION:
                                           .BLKB   6
                        00EC9 VALUE_FORM_LENGTH:
                                           .BLKB   1
                        00ECA VALUE_FORM_MARGIN_BOTTOM:
                                           .BLKB   1
                        00ECB VALUE_FORM_MARGIN_LEFT:
                                           .BLKB   2
                        00ECD VALUE_FORM_MARGIN_RIGHT:
                                           .BLKB   2
                        00ECF VALUE_FORM_MARGIN_TOP:
                                           .BLKB   1
                        00ED0 VALUE_FORM_NAME:
                                           .BLKB   6
                        00ED6 VALUE_FORM_NUMBER:
                                           .BLKB   4
                        00EDA VALUE_FORM:
                                           .BLKB   8
                        00EE2 VALUE_FORM_SETUP_MODULES:
                                           .BLKB   6
                        00EE8 VALUE_FORM_STOCK:
                                           .BLKB   6
                        00EEE VALUE_FORM_WIDTH:
                                           .BLKB   2
                        00EF0 VALUE_GENERIC_TARGET:
                                           .BLKB   996
                        012D4 VALUE_JOB_COPIES:
                                           .BLKB   1
                        012D5 VALUE_JOB_LIMIT:
                                           .BLKB   1
                        012D6 VALUE_JOB_NAME:
                                           .BLKB   6
```

```
012DC VALUE_JOB_RESET_MODULES:
            .BLKB    6
012E2 VALUE_JOB_SIZE_MAXIMUM:
            .BLKB    4
012E6 VALUE_JOB_SIZE_MINIMUM:
            .BLKB    4
012EA VALUE_JOB_STATUS_OUTPUT:
            .BLKB    10
012F4 VALUE_LAST_PAGE:
            .BLKB    4
012F8 VALUE_LIBRARY_SPECIFICATION:
            .BLKB    6
012FE VALUE_LOG_QUEUE:
            .BLKB    8
01306 VALUE_LOG_SPECIFICATION:
            .BLKB    6
0130C VALUE_NOTE:
            .BLKB    6
01312 VALUE_OPERATOR_REQUEST:
            .BLKB    6
01318 VALUE_OWNER_UIC:
            .BLKB    4
0131C VALUE_PAGE_SETUP_MODULES:
            .BLKB    6
01322 VALUE_PARAMETER_1:
            .BLKB    6
01328 VALUE_PARAMETER_2:
            .BLKB    6
0132E VALUE_PARAMETER_3:
            .BLKB    6
01334 VALUE_PARAMETER_4:
            .BLKB    6
0133A VALUE_PARAMETER_5:
            .BLKB    6
01340 VALUE_PARAMETER_6:
            .BLKB    6
01346 VALUE_PARAMETER_7:
            .BLKB    6
0134C VALUE_PARAMETER_8:
            .BLKB    6
01352 VALUE_PRIORITY:
            .BLKB    1
01353 VALUE_PROCESSOR:
            .BLKB    6
01359 VALUE_PROTECTION:
            .BLKB    4
0135D VALUE_QUEUE:
            .BLKB    6
01363 VALUE_QUEUE_FILE_SPECIFICATION:
            .BLKB    6
01369 VALUE_RELATIVE_PAGE:
            .BLKB    4
0136D VALUE_RESERVED_INPUT_1:
            .BLKB    1
0136E VALUE_RESERVED_INPUT_2:
            .BLKB    2
01370 VALUE_RESERVED_INPUT_3:
```

```
                                                                   .BLKB
                                            01374 VALUE_RESERVED_INPUT_4:
                                                                   .BLKB    6
                                            0137A VALUE_RESERVED_OUTPUT_1:
                                                                   .BLKB    10
                                            01384 VALUE_RESERVED_OUTPUT_2:
                                                                   .BLKB    10
                                            0138E VALUE_SEARCH_STRING:
                                                                   .BLKB    6
                                            01394 VALUE_SCSNODE_NAME:
                                                                   .BLKB    6
                                            0139A VALUE_WSDEFAULT:
                                                                   .BLKB    2
                                            0139C VALUE_WSEXTENT:
                                                                   .BLKB    2
                                            0139E VALUE_WSQUOTA:
                                                                   .BLKB    2
                                            013A0 VALUE_STORAGE_END:
                                                                   .BLKB    0

                                                    JBC$_CLOSEOUT=        266328
                                                    JBC$_NOCMKRNL=        272388
                                                    JBC$_NOOPER=          272532
                                                    JBC$_NOSYSNAM=        272404
                                                    JBC$_OPENIN=          266392
                                                    JBC$_OPENOUT=         266400
                                                    JBC$_READERR=         266416
                                                    JBC$_WRITEERR=        266448
                                                            .EXTRN    CREATE_SRQ_RECORD
                                                            .EXTRN    SYS$BRKTHRU

                                                            .PSECT    CODE,NOWRT,2

                                  0000 00000            .ENTRY    BROADCAST_MESSAGE, Save nothing        : 1108
                      5E        10  C2 00002            SUBL2     #16, SP
                      50      04  AC  D0 00005            MOVL      SYSID, R0                            : 1147
                      60 00000000'  EF  D1 00009            CMPL      THIS_SYSID, (R0)
                                  0A  12 00010            BNEQ      1$
          04      A0 00000000'  EF  B1 00012            CMPW      THIS_SYSID+4, 4(R0)
                                  13  13 0001A            BEQL      2$
                      7E      0C  AC  7D 0001C 1$:        MOVQ      LENGTH, -(SP)                        : 1152
                                  08  AC  DD 00020            PUSHL     USERNAME
                                  50  DD 00023            PUSHL     R0
                                  09  DD 00025            PUSHL     #9                                   : 1150
          00000000G  EF      05  FB 00027            CALLS     #5, CREATE_SRQ_RECORD
                                  04 0002E            RET                                               : 1147
          08      AE  0C  AC  7D 0002F 2$:        MOVQ      LENGTH, MSG_DESC                            : 1163
                      6E          0C  D0 00034            MOVL      #12, USER_DESC                       : 1165
          04      AE  08  AC  D0 00037            MOVL      USERNAME, USER_DESC+4                       : 1166
                                  7E  7C 0C03C            CLRQ      -(SP)                                : 1172
                                  0A  DD 0003E            PUSHL     #10
                                  03  DD 00040            PUSHL     #3
                      7E      20  7D 00042            MOVQ      #32, -(SP)
                      7E      02  7D 00045            MOVQ      #2, -(SP)
                              20  AE  9F 00048            PUSHAB    USER_DESC
                              2C  AE  9F 0004B            PUSHAB    MSG_DESC
                                  7E  D4 0004E            CLRL      -(SP)
```

```
        00000G00G  U0           0B  FB 00050          CALLS   #11, SYS$BRKTHRU
                                    04 00057          RET                                          ; 1174
```

; Routine Size: 88 bytes,   Routine Base: CODE + 0000

```
: 138          1175  1 END
: 139          1176  0 ELUDOM
```

```
:
:                               PSECT SUMMARY
:
:           Name                      Bytes                      Attributes
:
: COMMON                             5024  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  OVR,NOPIC,ALIGN(2)
: CODE                                 88  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
```

```
:
:                          Library Statistics
:
:                                    -------- Symbols --------    Pages      Processing
:           File                     Total   Loaded   Percent    Mapped     Time
:
: _$255$DUA28:[SYSLIB]LIB.L32;1      18619     36        0        1000       00:01.4
```

```
:
:                               COMMAND QUALIFIERS
:
:           BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:BROADCAST/OBJ=OBJ$:BROADCAST MSRC$:BROADCAST/UPDATE=(ENH$:BROADCAST)

: Size:          88 code + 5024 data bytes
: Run Time:          00:10.6
: Elapsed Time:      01:19.2
: Lines/CPU Min:      6681
: Lexemes/CPU-Min: 57573
: Memory Used:    207 pages
: Compilation Complete
```