



```

CCCCCCCC 000000 NN NN VV VV LL IIIIII NN NN KK KK
CCCCCCCC 000000 NN NN VV VV LL IIIIII NN NN KK KK
CC        OO        NN NN VV VV LL        NN NN KK KK
CC        OO        NN NN VV VV LL        NN NN KK KK
CC        OO        NNNN NN VV VV LL        NNNN NN KK KK
CC        OO        NNNN NN VV VV LL        NNNN NN KK KK
CC        OO        NN NN NN VV VV LL        NN NN KKKKKK
CC        OO        NN NN NN VV VV LL        NN NN KKKKKK
CC        OO        NN NN NN VV VV LL        NN NN KK KK
CC        OO        NN NN NN VV VV LL        NN NN KK KK
CC        OO        NN NN NN VV VV LL        NN NN KK KK
CC        OO        NN NN NN VV VV LL        NN NN KK KK
CCCCCCCC 000000 NN NN NN VV VV LL        NN NN KK KK
CCCCCCCC 000000 NN NN NN VV VV LL        NN NN KK KK

```

```

RRRRRRRR EEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEE QQQQQQ
RR        RR      EE      QQ      QQ
RR        RR      EE      QQ      QQ
RR        RR      EE      QQ      QQ
RRRRRRRR EEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEE QQQQQQ
RR        RR      EE      QQ      QQ
RR        RR      EE      QQ      QQ
RR        RR      EE      QQ      QQ
RR        RR      EE      QQ      QQ
RR        RR      EEEEEEEEE QQQQ  QQ
RR        RR      EEEEEEEEE QQQQ  QQ

```

A V



%TITLE 'VAX-11 CONVERT'

Version: 'V04-000'

```
*****  
*  
* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
* ALL RIGHTS RESERVED.  
*  
* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
* TRANSFERRED.  
*  
* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
* CORPORATION.  
*  
* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
*  
*****
```

!++

Facility: VAX-11 CONVERT  
Abstract: Linkage definitions for the convert utilities  
Environment:  
VAX/VMS Operating System

--

Author: Keith B Thompson      Creation date: May-1982

Modified by:

- V03-002 KBT0477      Keith B. Thompson      29-Jan-1983  
Add init\_fast\_load, load\_secondary, extend\_area,  
check\_key and load\_key linkage
- V03-001 KBT0437      Keith B. Thompson      16-Dec-1982  
Preserve R1 in get\_vm and get\_tmp\_vm calls

\*\*\*\*

A  
V  
.....





```
          CTX      = 10.,
          KEY_DESC  = 11 ),

! Reclaim linkages
RL$JSB_REG_9  = JSB : GLOBAL( BUCKET      = 9,
                              CTX         = 10.,
                              KEY_DESC    = 11 ),

RL$JSB_REG_8  = JSB : GLOBAL( KEY_POINTER  = 8,
                              BUCKET      = 9,
                              CTX         = 10.,
                              KEY_DESC    = 11 ),

! Add_key linkages
AL$JSB_REG_11 = JSB : GLOBAL( KEY_DESC    = 11 ),
```



## ! Routine specific links

```

!
CLSALLOCATE_CTX      = JSB : GLOBAL( CTX      = 10 ),
CLSCOMPARE_KEY      = JSB ( REGISTER = 0,      ! Segment type
                          REGISTER = 1,      ! Segment size
                          REGISTER = 2,      ! New key seq.
                          REGISTER = 3 ),    ! Old key seq.

CLS_CONVERT_VBN_ID  = JSB : GLOBAL( SORT_VBN = 6, SORT_ID = 7 ),
CLS_COPY_KEY        = JSB : GLOBAL( RECORD_CTRL = 8,
                                    CTX         = 10,
                                    KEY_DESC    = 11 ),

CLSCVT_TO_ASC       = JSB,
CLSEXTEND_AREA      = JSB,
CLSFAST_LOAD        = JSB : GLOBAL( KEY_DESC = 11 ),
CLSFREE_VM          = JSB,
CLSFREE_TEMP_VM     = JSB,
CLSGET_NEXT_KEY     = JSB : GLOBAL( KEY_DESC = 11 ),
CLSGET_RECORD       = JSB,
CLSGET_TEMP_VM      = JSB : PRESERVE ( 1 ),
CLSGET_VM           = JSB : PRESERVE ( 1 ),
CLSINIT_FAST_LOAD   = JSB : GLOBAL( BUCKET   = 9,
                                    CTX      = 10,
                                    KEY_DESC = 11 ),

CLSLOAD_SECONDARY   = JSB : GLOBAL( BUCKET   = 9,
                                    CTX      = 10,
                                    KEY_DESC = 11 ),

CLSLOAD_SDR         = JSB : GLOBAL( CTX = 10 ),
CLSREAD_PROLOGUE    = JSB,
CLSSET_KEY_DESC     = JSB : GLOBAL( KEY_DESC = 11 ),
CLSSORT_PRIMARY     = JSB : GLOBAL( KEY_DESC = 11 ),
CLSSORT_SECONDARY   = JSB : GLOBAL( KEY_DESC = 11 ),
CLSWRITE_AREA_DESC  = JSB ( REGISTER = T ),
CLSWRITE_KEY_DESC   = JSB : GLOBAL( KEY_DESC = 11 ),

ALSCHECK_KEY        = JSB : GLOBAL( KEY_DESC = 11 ),
ALSLOAD_KEY          = JSB : GLOBAL( KEY_DESC = 11 );

```

## ! Global register definitions

! MACRO

## ! Global registers

```

DEFINE_KEY_DESC_GLOBAL = GLOBAL REGISTER
                        KEY_DESC          = 11 : REF BLOCK [ ,BYTE ]%,

DEFINE_CTX_GLOBAL      = GLOBAL REGISTER
                        CTX              = 10 : REF BLOCK [ ,BYTE ]%,

DEFINE_BUCKET_GLOBAL   = GLOBAL REGISTER
                        BUCKET          = 9 : REF BLOCK [ ,BYTE ]%,

DEFINE_KEY_POINTER_GLOBAL = GLOBAL REGISTER
                        KEY_POINTER     = 8%,

DEFINE_RECORD_CTRL_GLOBAL = GLOBAL REGISTER

```

```

                                RECORD_CTRL      = 8 : REF BLOCK [ ,BYTE ]%,
DEFINE_VBN_ID_GLOBAL  = GLOBAL REGISTER
                                SORT_VBN         = 6,
                                SORT_ID          = 7%,
DEFINE_CTX             = EXTERNAL REGISTER
                                CTX              : REF BLOCK [ ,BYTE ]%,
DEFINE_BUCKET         = EXTERNAL REGISTER
                                BUCKET           : REF BLOCK [ ,BYTE ]%,
DEFINE_KEY_DESC       = EXTERNAL REGISTER
                                KEY_DESC         : REF BLOCK [ ,BYTE ]%,
DEFINE_KEY_POINTER    = EXTERNAL REGISTER
                                KEY_POINTER      : REF BLOCK [ ,BYTE ]%,
DEFINE_RECORD_CTRL    = EXTERNAL REGISTER
                                RECORD_CTRL      : REF BLOCK [ ,BYTE ]%;
```



