


```

IIIIII      MM      MM      GGGGGGGG      AAAAAA      CCCCCCCC      TTTTTTTTTT      CCCCCCCC      TTTTTTTTTT      XX      XX
IIIIII      MM      MM      GGGGGGGG      AAAAAA      CCCCCCCC      TTTTTTTTTT      CCCCCCCC      TTTTTTTTTT      XX      XX
  II        MMMM    MMMM    GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MMMM    MMMM    GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
  II        MM      MM      GG          AA          AA      CC          TT          CC          TT          XX      XX
IIIIII      MM      MM      GGGGGG      AA          AA      CCCCCCCC      TT          CCCCCCCC      TT          XX      XX
IIIIII      MM      MM      GGGGGG      AA          AA      CCCCCCCC      TT          CCCCCCCC      TT          XX      XX

```

```

SSSSSSSS    DDDDDDDD    LL
SSSSSSSS    DDDDDDDD    LL
SS          DD          DD    LL
SS          DD          DD    LL
SS          DD          DD    LL
SS          DD          DD    LL
SSSSSS      DD          DD    LL
SSSSSS      DD          DD    LL
          SS          DD    LL
          SS          DD    LL
          SS          DD    LL
          SS          DD    LL
SSSSSSSS    DDDDDDDD    LLLLLLLLLL
SSSSSSSS    DDDDDDDD    LLLLLLLLLL

```

{ Version: 'V04-000'

```

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{++

{ Facility:
Image Activator Internal Structure Definitions

{ Abstract:
This file contains definitions of the structures used internally
by the various components of the image activator.

{ Author:
Lawrence J. Kenah

{ Creation Date:
15 April 1983

{ Modified By:

V03-009	LJK0280	Lawrence J. Kenah	9-May-1984
		Change WRONG_SYS_STB flag to SYS_STB.	
V03-008	LJK0271	Lawrence J. Kenah	3-Apr-1984
		Define bitfields in IAC\$GL_IMAGCTX. Perform miscellaneous cleanup.	
V03-007	LJK0267	Lawrence J. Kenah	28-Mar-1984
		Add room in CTX storage area for global section name.	

module OWNDEF;

{
 {+
 { OWN - Image Activator OWN Storage

{
 {
 { These definitions describe the OWN storage used by the image activator.
 { This storage exists in several P1 pages and is used to contain all of
 { the information that is needed to describe a given activation but is
 { not required after the activation completes.
 {-

aggregate OWNDEF structure prefix '':

```
INTERNAL_FLAGS structure longword unsigned; /* Name attributes
/* The following two flags are mutually exclusive
MAIN_PROGRAM bitfield mask; /* Activation of main program
MERGE bitfield mask; /* Merged activation
IMAGE_ACCOUNT bitfield mask; /* Image accounting enabled
REMOVE_PRIVILEGE bitfield mask; /* Remove CMKRNL and CMEXEC privilege
TRANSFER_BIAS_STORED bitfield mask; /* Set to indicate that transfer array bias has been stored
P1_MERGE_PO bitfield mask; /* Indicates PO part of P1 merge
end INTERNAL_FLAGS;
```

```
LOCK_STATUS_BLOCK structure quadword unsigned;
LOCK_STATUS word unsigned;
OWN_T word fill;
LOCK_ID longword unsigned;
end LOCK_STATUS_BLOCK;
```

```
FILE_NAME_SIZE word unsigned; /* Size in bytes of image file name
OTHER_CHANNEL word unsigned; /* Channel on which primary image file is opened
FINAL_STATUS longword unsigned; /* Ultimate return status from SYSSIMGACT
OTHER_KFE_ADDRESS longword unsigned; /* Address of KFE that describes primary image file
TRANSFER_ARRAY_BIAS longword unsigned; /* Amount by which to adjust transfer addresses
USER_STACK_SIZE longword unsigned;
IMAGE_IO_SEG_SIZE longword unsigned;
CALL_MODE byte unsigned; /* Callers mode
OWN_2 byte dimension 3 fill;
SEQ_LOAD_ISDS longword unsigned; /* Address of ISDs for sequential load
RMS_BASE longword unsigned; /* Address of alternate RMS dispatcher
```

{ The following cells are used to keep safe copies of the various
 { components of the argument list.

```
IMAGE_NAME_DESC quadword unsigned;
DFLT_NAME_DESC quadword unsigned;
BUFFER_ADDRESS longword unsigned;
INPUT_FLAGS longword unsigned;
INPUT_ADDRESS_RANGE structure quadword unsigned;
    INPUT_START_ADDRESS longword unsigned;
    INPUT_END_ADDRESS longword unsigned;
end INPUT_ADDRESS_RANGE;
RETURN_ARRAY_ADDRESS longword unsigned;
RETURN_ADDRESS_RANGE structure quadword unsigned;
    RETURN_START_ADDRESS longword unsigned;
    RETURN_END_ADDRESS longword unsigned;
end RETURN_ADDRESS_RANGE;
INPUT_IDENT structure quadword unsigned;
MATCH_CONTROL longword unsigned;
VERSION structure longword unsigned;
```

```
        MINOR_ID bitfield length 24 mask;  
        MAJOR_ID bitfield length 8  mask;  
    end VERSION;  
end INPUT_IDENT;  
ACCESS_MODE longword unsigned;  
constant 'OWN_STORAGE_SIZE' equals . prefix '' tag ''; /* Size of OWN storage  
end OWNDEF;  
end_module OWNDEF;
```



```

module $ICBDEF;
{+
{ ICB - Image Control Block
{
{   There is one image control bloc. for each image (executable or
{   shareable) that is currently mapd 1 into process address space.
{-

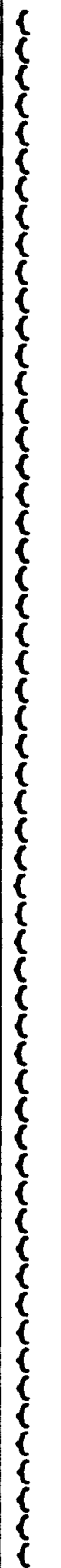
aggregate ICB$DEF structure prefix ICBS;
  FLINK longword unsigned;          /* Forward link in list
  BLINK longword unsigned;         /* Backward link in list
  SIZE word unsigned;              /* Size of ICB in bytes
  TYPE byte unsigned;              /* Structure type for ICB
  constant ICB_TYPE_CODE equals 127 prefix BS tag K;
  ICB 1 byte fill;                 /* Spare for alignment
  ACCESS_MODE byte unsigned;       /* Access mode of image
  ACT_CODE byte unsigned;          /* Activation code
  constant
    ( MAIN PROGRAM                 /* Object of RUN command
      , MERGED_IMAGE                /* Additional image mapped
      , GLOBAL_IMAGE_SECTION        /* Image described by global ISD
    ) equals 1 increment 1 prefix ICBS tag K;
  CHAN word unsigned;              /* Channel on which image file is opened
  FLAGS structure longword unsigned; /* Name attributes
    EXPREG bitfield mask;          /* Image mapped at end of address space
    SHAREABLE bitfield mask;       /* Image installed /SHAREABLE
    OPEN_FOR_WRITE bitfield mask;  /* Image will be opened for write
    RES_READER bitfield mask;      /* Image header already decoded
    LOAD_IMAGE bitfield mask;      /* Load image from sequential device
    INITIALIZE bitfield mask;      /* Image contains initialization code
    DONE bitfield mask;            /* Image is completely activated
    SYS_STB bitfield mask;         /* Image is linked against SYS.STB
  end FLAGS;

/* The image name is stored as a counted ASCII string.
IMAGE_NAME character length 40;    /* Name string (counted ASCII)
FILL 1 longword fill;
"IDENT" structure quadword unsigned;
  MATCH_CONTROL structure longword unsigned;
    MATCH_CONTROL bitfield length 3 mask;
  end MATCH_CONTROL;
  VERSION structure longword unsigned;
    MINOR_ID bitfield length 24 mask;
    MAJOR_ID bitfield length 8 mask;
  end VERSION;
end "IDENT";
ADDRESS_RANGE structure quadword unsigned;
  STARTING_ADDRESS longword unsigned;
  END_ADDRESS longword unsigned;
end ADDRESS_RANGE;
IHD longword unsigned;             /* Address of IHD for image
KFE longword unsigned;             /* Address of KFE for image
CONTEXT longword unsigned;         /* Address of context block
BASE_ADDRESS longword unsigned;    /* Base address at which image is mapped
INITIALIZE longword unsigned;      /* Address of initialization code

```




```
constant 'LENGTH' equals . prefix ICBS tag C; /* Length of ICB  
constant 'LENGTH' equals . prefix ICBS tag K; /* Length of ICB  
end ICBSDEF;  
end_module $ICBDEF;
```



0370

AH-BT13A-SE
VAX/VMS V4.0

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A dense grid of approximately 120 small, illegible text-based windows or panels, likely representing a multi-tasking operating system interface. The panels are arranged in a regular grid pattern across the page.

SYSDEF AE
SDL

IMGACTX
SDL

SYSDEF FL
SDL