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Version: 'V04-000'

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Author:

R. Newland 16-NOV-1978

Modified By:

```

V02-001 MTR0001 Mike Rhodes 21-Jan-1982
Change buffer size to the current maximum of 255.

```

```

*****
S U M D E F . M A R
*****

```

```

This module defines the offsets used in the Source Update
Merge (SUM) modules.

```

DEFINE SOURCE UPDATE MERGE FILE BLOCK OFFSETS

.MACRO DEFUPFBLK

\$NAMDEF ; Define RMS NAM block offsets

\$DEFINI UPF

\$DEF UPF\_L\_PTR .BLKL 1 ; Linkage pointer

```

$DEF UPF_W_LOC1 .BLKW 1 : Locator-1
$DEF UPF_W_LOC2 .BLKW 1 : Locator-2
$DEF UPF_B_FIFLAGS .BLKB 1 : File flags byte
$DEF UPF_B_EDFLAGS .BLKB 1 : Edit flags word
$DEF UPF_W_DOT .BLKW 1 : Dot value
$DEF UPF_B_FILENO .BLKB 1 : File number
      .BLKB 3 : Spare
$DEF UPF_Q_EDITS .BLKQ 1 : Edits list head
$DEF UPF_Q_AUDDS .BLKQ 1 : Audit string descriptor
$DEF UPF_Q_CMNT .BLKQ 1 : Comment descriptor
$DEF UPF_T_AUDST .BLKB 16 : Audit string
$DEF UPF_T_NAM .BLKB NAM$K_BLN : RMS NAM block
$DEF UPF_K_BLN : Length of UPF block

:
: File flags
:
_VIELD UPF,0,< -
      <INIT,,M> - : Edit list has been initialised
      >

:
$DEFEND UPF

:
DEFSUMFLG

:
.MACRO DEFUPFBLK
.ENDM DEFUPFBLK

:
.ENDM DEFUPFBLK

:
: Define SUM input stream flag bits
:
.MACRO DEFSUMFLG

_VIELD SUM,0,< -
      <AUDIT,,M> - : Audit trail is off/on
      <AUDITNEW,,M> - : New audit trail
      <SRCUPD,,M> - : Line is from source(0) or update(1)
      <SUBCLSH,,M> - : 2nd or later clash of clash report
      <DELETE,,M> - : Source line has deleted lines info
      >

:
.MACRO DEFSUMFLG
.ENDM DEFSUMFLG

:
.ENDM DEFSUMFLG

:
: Define input stream data block
:
.MACRO DEFISBLK

:
$DEFINI IS

:
$FABDEF : Define RMS FAB offsets

$DEF IS_L_FILELIST .BLKL 1 : Address of file list

```

```

$DEF IS_B_STATE .BLKB 1 ; Current state
$DEF IS_B_PROCFLAGS .BLKB 1 ; Procedure flags
$DEF IS_W_LINE_NO .BLKW 1 ; Source file line number
$DEF IS_L_OPEN_FILE .BLKL 1 ; UPF address of currently open file
$DEF IS_L_CONN_FILE .BLKL 1 ; UPF address of currently connected file
$DEF IS_L_EDIT_BLK .BLKL 1 ; Current edit block address
$DEF IS_L_FIRST_EDIT .BLKL 1 ; First edit block in range of edits
$DEF IS_L_LAST_EDIT .BLKL 1 ; Last edit block in range of edits
$DEF IS_L_MAIN_FAB .BLKL 1 ; Address of main program FAB
$DEF IS_L_MAIN_RAB .BLKL 1 ; Address of main program RAB
$DEF IS_W_MAIN_RFA .BLKW 3 ; Source file RFA
$DEF IS_B_FLAGS .BLKB 1 ; Input stream flags
$DEF IS_B_SPARE .BLKB 1 ; Spare
$DEF IS_W_HIGH_LOC2 .BLKW 1 ; Highest loc-2 during update check
$DEF IS_W_INSERT_NO .BLKW 1 ; Count of insert lines
$DEF IS_W_DELETES .BLKW 1 ; Number of deleted lines
$DEF IS_T_FAB .BLKB FAB$K_BLN ; FAB block
$DEF IS_K_BLN ; Length of IS block

```

```

$DEFEND IS

```

```

.MACRO DEFISBLK
.ENDM DEFISBLK

```

```

.ENDM DEFISBLK

```

```

: Define edit node offsets

```

```

.MACRO DEFEDBLK

```

```

$DEFINI ED

```

```

$DEF ED_L_FWD .BLKL 1 ; List head forward pointer
$DEF ED_L_BWD .BLKL 1 ; List head backward pointer
$DEF ED_W_LOC1 .BLKW 1 ; Locator-1
$DEF ED_W_LOC2 .BLKW 1 ; Locator-2
$DEF ED_W_LINES .BLKW 1 ; Number of insert lines
$DEF ED_W_RFA .BLKB 6 ; Record file address
$DEF ED_L_FILE .BLKL 1 ; File block pointer
$DEF ED_B_FLAGS .BLKB 1 ; Edit flags byte
$DEF ED_B_FILENO .BLKB 1 ; Number of file
$DEF ED_K_BLN ; Length of edit block

```

```

: Edit flags

```

```

-VIELD ED,0,< -
<SUPPRESS,,M> - ; Suppress clash message
<SEQERR,,M> - ; Edit was out of sequence
>

```

```

$DEFEND ED

```

```

.MACRO DEFEDBLK

```

```

        .ENDM  DEFEDBLK
:
        .ENDM  DEFEDBLK
:
: Define command type bits
:
        .MACRO  DEFCMDTYPE
:
_VIELD  CMD,O,< -
        <CMND,,M> -           : Line is command
        <EDTRM,,M> -         : Command is edit terminator
        <EDEND,,M> -         : Edit terminator is end of edit
        >
:
        CMD_M_ALL = CMD_M_CMND ! CMD_M_EDTRM ! CMD_M_EDEND
:
        .MACRO  DEFCMDTYPE
        .ENDM  DEFCMDTYPE
:
        .ENDM  DEFCMDTYPE
:
: Macro to define SUM control block offsets
:
        .MACRO  DEFSUMCBL
:
        $DEFINI SUM
:
$DEF  SUM_L_STS      .BLKL  1      : Return status (also in R0)
$DEF  SUM_L_ISDATA  .BLKL  1      : Address if input stream data block
$DEF  SUM_Q_AUDDS   .BLKQ  1      : Descriptor of current audit string
$DEF  SUM_Q_FILESP  .BLKQ  1      : Descriptor of update file name
$DEF  SUM_W_LINE_NO .BLKW  1      : Source file line number
$DEF  SUM_W_INSERT_NO .BLKW  1    : Insert number
$DEF  SUM_B_FLAGS   .BLKB  1      : Flags byte
$DEF  SUM_K_BLN     .BLKB  1      : Length of SUM control block
:
        $DEFEND SUM
:
        DEFSUMFLG
:
        $SUMMSGDEF
:
        .MACRO  DEFSUMCBL
        .ENDM  DEFSUMCBL
:
        .ENDM  DEFSUMCBL
:
: Macro to define SUMSLP flags long-word bits
:
        .MACRO  DEFSSLFLG

```

```

_VIELD SSL,0,< -
<OUTPUT,,M> -           ; Edit output required
<MODE,,M> -             ; Operational mode -- 0:edit 1:command
<LIST,,M> -             ; Edit listing required
<HEADER,,M> -          ; Edit output requires RHB information
<FORMFEED,,M> -        ; Record was a form-feed
>

:
.MACRO DEFSSLFLG
.ENDM DEFSSLFLG

:
.ENDM DEFSSLFLG

:
: Macro to define SUMSLP general definitions
:
.MACRO DEFSSLGEN
:
SSL$BUFSIZE      = 255      ; Buffer size
SSL$FILSZ        = 64       ; File name size
SSL$RHBSZ        = 12       ; Record header buffer size
SSL$AUTSZ        = 16       ; Audit trail string size
SSL$LNOSZ        = 6        ; Line number field size
SSL$AULSZ        = 24       ; Total size of audit and line number
:
.MACRO DEFSSLGEN
.ENDM DEFSSLGEN

:
.ENDM DEFSSLGEN

:
: Macro to define SUMSLP record header buffer
:
.MACRO DEFSSLRHB
:
$DEFINI SHB
:
SHB_K_AUDSZ = 8           ; Audit trail size in VFC header
:
$DEF SHB_W_LINE_NO .BLKW 1 ; Line number
$DEF SHB_W_INSERT_NO .BLKW 1 ; Insert number
$DEF SHB_T_AUDIT .BLKB SHB_K_AUDSZ ; Audit trail
$DEF SHB_K_BLN ; Length of SUMSLP record header buffer
:
$DEFEND SHB
:
.MACRO DEFSSLRHB
.ENDM DEFSSLRHB

:
.ENDM DEFSSLRHB

```

0368 AH-BT13A-SE  
VAX/VMS V4.0

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Grid of 15 columns and 15 rows of terminal screens. Each screen displays a different system utility or report. The screens are arranged in a grid pattern, with each cell containing a small window of text or data. The text is mostly monospaced and appears to be output from a terminal emulator. Some screens have titles or headers, such as:

- SUMSLP MAP
- SRTTRMSG LIS
- SUMSHR MAP
- SUMDATA LIS
- UTLCHKLI LIS
- SUM
- SUM MAP
- SUMDEF MAR
- MAIN LIS
- SUMED LIS
- SUMEDIT LIS
- GETCMD LIS

The screens also contain various data tables, lists, and command-line prompts, typical of a VAX/VMS system's utility set.