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	SSS	UUU	MMM	MMM
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SSSSSSSSSSS	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	MMM	MMM
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SS        UU    UU  MMMM  MMMM  00        00  PP        PP  EE        EE  NN    NN
SS        UU    UU  MM    MM    00        00  PP        PP  EE        EE  NNNN   NN
SS        UU    UU  MM    MM    00        00  PP        PP  EE        EE  NNNN   NN
SSSSSS    UU    UU  MM    MM    00        00  PPPPPPP  EEEEEEEEE  NN  NN  NN
SSSSSS    UU    UU  MM    MM    00        00  PPPPPPP  EEEEEEEEE  NN  NN  NN
SS        UU    UU  MM    MM    00        00  PP        PP  EE        EE  NN    NNNN
SS        UU    UU  MM    MM    00        00  PP        PP  EE        EE  NN    NNNN
SS        UU    UU  MM    MM    00        00  PP        PP  EE        EE  NN    NN
SSSSSSSS  UUUUUUUUU  MM    MM    000000  PP        PP  EEEEEEEEE  NN    NN
SSSSSSSS  UUUUUUUUU  MM    MM    000000  PP        PP  EEEEEEEEE  NN    NN

```

```

LL        IIIIII  SSSSSSSS
LL        IIIIII  SSSSSSSS
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LL        II      SS
LL        II      SS
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LL        II      SSSSSS
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LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLL  IIIIII  SSSSSSSS

```

SUM\$OPEN  
Table of contents

(2) 52  
(3) 81  
(4) 187

DECLARATIONS  
SUM\$OPEN  
RETURN\_FNS

SUM  
Sym

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```
0000 1 .TITLE SUM$OPEN
0000 2
0000 3 .IDENT 'V04-000'
0000 4
0000 5
0000 6 :*****
0000 7 :*
0000 8 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 9 :* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
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0000 24 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 25 :*
0000 26 :*
0000 27 :*****
0000 28 :
0000 29
0000 30 :++
0000 31 : FACILITY:
0000 32
0000 33 : ABSTRACT:
0000 34
0000 35 : Source Update Merge procedure to check the existance of
0000 36 : the files in an update files list.
0000 37
0000 38
0000 39
0000 40 : ENVIRONMENT: USER MODE
0000 41
0000 42 : AUTHOR: R. Newland
0000 43
0000 44
0000 45 : MODIFIED BY:
0000 46
0000 47 : V02-001 BLS0139 Benn Schreiber 26-Jan-1981
0000 48 : Remove deallocation of unused part of resultant name buffer
0000 49
0000 50 :--
```

DECLARATIONS

```
0000 52      .SBTTL  DECLARATIONS
0000 53      :
0000 54      :
0000 55      : Macro definitions
0000 56      :
0000 57      DEFUPFBK      : Source update merge
0000 58      $FABDEF      : FAB block
0000 59      $NAMDEF      : NAM block
0000 60      :
0000 61      :
0000 62      :
0000 63      :
0000 64      : Local storage
0000 65      :
0000 66      :
00000000 67      .PSECT  SUM$RO_DATA,NOEXE,NOVRT,LONG
0000 68      :
0000 69      :
44 50 55 2E 00' 0000 70 SUM_DEFNAME:
04 0000 71      .ASCIC  /.UPD/      : Default file name
0005 72      :
0005 73 SUM_MAXRSS:
00000100 0005 74      .LONG  256      : Max size of resultant file name string
0009 75      :
0009 76      :
0009 77      :
00000000 78      .PSECT  SUM$RW_DATA,NOEXE,LONG
0000 79      :
```

SUM\$OPEN

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0009 127  
0011 128  
0019 129  
001E 130  
001E 131  
0022 132  
0026 133  
002A 134  
002A 135  
002E 136  
0033 137

.SBTTL SUM\$OPEN

++ Functional description:

This procedure determines which files in an update files list can be successfully opened. The NAM block information of each file which can be opened is saved so that subsequent opens can be performed quickly. The resultant file specification string is also saved. For files that can not be opened because of a 'file not found' error a warning message is issued and the file entry removed. For files that can not be opened for any other reason a fatal error message is issued.

The NAM block of the associated source file is used to supply initial default information.

The input parameter, address of first update file, will be changed if the first file (or the new first file) can not be found. If all files can not be found the pointer will become zero.

Calling sequence:

CALLG/CALLS

Inputs:

4(AP) = Source file NAM block address

8(AP) = Pointer to address of first entry in Update list

Outputs:

None

0000 120 .PSECT SUM\$CODE,NOWRT, LONG

0000 122 .DEBUG SUM\$OPEN

0C1C 0000 124 .ENTRY SUM\$OPEN, ^M<R2,R3,R4,R10,R11>

MOVAB SUM\$FAB,R2 ; Set FAB pointer

MOVB SUM\_DEFNAME,FAB\$B\_DNS(R2) ; Initialise default file name

MOVAL SUM\_DEFNAME+1,FAB\$L\_DNA(R2)

BBCC #FAB\$V\_NAM,FAB\$L\_FOP(R2),10\$ ; Set for open by file name

10\$: MOVL 4(AP),R3 ; Set related NAM block pointer

MOVL @8(AP),R10 ; and Update file block pointer

MOVAL @8(AP),R11 ; Set pointer to previous block

20\$: MOVAB UPF\_T\_NAM(R10),R4 ; Set NAM block pointer

MOVB UPF\_Q\_CMNT(R10), - ; Set file name string size and address

FAB\$B\_FNS(R2)

52 00000000'EF 9E 0002 126  
35 A2 00000000'EF 90 0009 127  
30 A2 00000001'EF DE 0011 128  
00 04 A2 18 E5 0019 129  
53 04 AC D0 001E 130  
5A 08 BC D0 0022 131  
5B 08 BC DE 0026 132  
54 38 AA 9E 002A 133  
34 A2 20 AA 90 002E 134  
0033 137

2C A2	24 AA	D0	0033	138	MOVL	UPF_Q_CMNT+4(R10), -	
			0038	139		FAB\$L_FNA(R2)	
28 A2	54	D0	0038	140	MOVL	R4,FAB\$L_NAM(R2)	; Set NAM block pointer
10 A4	53	D0	003C	141	MOVL	R3,NAM\$L_RLF(R4)	; Set related NAM block pointer
0A A4	FF 8F	90	0040	142	MOVB	#255,NAM\$B_ESS(R4)	; Set size of expanded string
02 A4	FF 8F	90	0045	143	MOVB	#255,NAM\$B_RSS(R4)	; Set size of resultant string buffer
	04 A4	DF	004A	144	PUSHAL	NAM\$L_RSA(R4)	; Address to store resultant string
00C00005	'EF	DF	004D	145	PUSHAL	SUM_M\$XRSS	; Address of max resultant string length
00000000	'GF	FB	0053	146	CALLS	#2,G^LIB\$GET_VM	; Get memory block for resultant string
	6E 50	E9	005A	147	BLBC	R0,50\$	; Error if LBC
0C A4	04 A4	D0	005D	148	MOVL	NAM\$L_RSA(R4),NAM\$L_ESA(R4)	; Set expanded string buffer
			0062	149	\$OPEN	FAB=R2,ERR=SUM\$OPEN_ERR	; Open file
000000C0	'8F	D1	0074	151	BLBS	R0,40\$	; OK if LBS
	03	13	007B	152	CMPL	R0,#RMS\$_FNF	; Was error 'file not found'?
	0060	31	007D	153	BEQL	30\$	; Yes if EQL
			0080	154	BRW	90\$	
	04 A4	DF	0080	155	PUSHAL	NAM\$L_RSA(R4)	; Return resultant file spec block
00000005	'EF	DF	0083	156	PUSHAL	SUM_M\$XRSS	
00000000	'GF	FB	0089	157	CALLS	#2,G^LIB\$FREE_VM	
	46 50	E9	0090	158	BLBC	R0,80\$	; Error if LBC
	004B	30	0093	159	BSBW	RETURN_FNS	; Return file name string block
	40 50	E9	0096	160	BLBC	R0,80\$	; Error if LBC
	6R	DF	0099	161	PUSHAL	(R11)	; Return the update block
0000000C	'EF	DF	009B	162	PUSHAL	SUM\$BLSIZE	; Size of block
	5A 6A	D0	00A1	163	MOVL	(R10),R10	; Advance pointer before returning block
00000000	'GF	FB	00A4	164	CALLS	#2,G^LIB\$FREE_VM	; Free memory
	2B 50	E9	00AB	165	BLBC	R0,80\$	; Error if LBC
	6B 5A	D0	00AE	166	MOVL	R10,(R11)	; Relink update blocks
	21	11	00B1	167	BRB	70\$	
			00B3	168			
			00B3	169	\$CLOSE	FAB=R2,ERR=SUM\$CLOSE_ERR	; Close file
1B 50		E9	00C2	170	BLBC	R0,90\$	; Error if LBC
53 54		D0	00C5	171	MOVL	R4,R3	; Next related NAM block will be
			00C8	172			; this files' NAM block
0016		30	00C8	173	BSBW	RETURN_FNS	; Return file name string block
			00CB	174			
0B 50		E9	00CB	175	BLBC	R0,80\$	; Error if LBC
			00CE	176			
5B 5A		D0	00CE	177	MOVL	R10,R11	; Form previous block pointer
5A 6A		D0	00D1	178	MOVL	(R10),R10	; Point to next Update file block
			00D4	179			
	0A	13	00D4	180	BEQL	90\$	; and finish if end of list
	FF51	31	00D6	181	BRW	20\$	; Go back for next file
			00D9	182			
00000000	'EF	FB	00D9	183	CALLS	#0,SUM\$LIB_ERR	; Report library error
			00E0	184			
		04	00E0	185	RET		

RETURN\_FNS

```

00E1 187      .SBTTL RETURN_FNS
00E1 188      :
00E1 189      :
00E1 190      : Subroutine to return file name string block to virtual memory
00E1 191      :
00E1 192      : Inputs:
00E1 193      :
00E1 194      :         R10 = Address of SUM block
00E1 195      :
00E1 196      : Outputs:
00E1 197      :
00E1 198      :         R0 = Success/error status
00E1 199      :
00E1 200      :
00E1 201      RETURN_FNS:
20 AA B5 00E1 202      TSTW   UPF_Q_CMNT(R10)
0D 13 00E4 203      BEQL   10$
24 AA DF 00E6 204      PUSHAL  UPF_Q_CMNT+4(R10)
20 AA DF 00E9 205      PUSHAL  UPF_Q_CMNT(R10)
, 00000000'GF 02 FB 00EC 206      CALLS  #2,G^[IB$FREE_VM
00F3 207      10$:
05 00F3 208      RSB
00F4 209      :
00F4 210      :
00F4 211      .END

```

```

RETURN_FNS:
TSTW   UPF_Q_CMNT(R10)      ; Was there a file name string?
BEQL   10$                  ; No if EQL so no memory block to return
PUSHAL UPF_Q_CMNT+4(R10)    ; Address of file name string
PUSHAL UPF_Q_CMNT(R10)     ; Size of string
CALLS  #2,G^[IB$FREE_VM    ; Return memory

```



SUMSOPEN  
Symbol table

D 10

16-SEP-1984 02:12:19 VAX/VMS Macro V04-00  
5-SEP-1984 03:39:19 [SUM.SRC]SUMOPEN.MAR;1

Page 6  
(4)

UPE  
V04

SS.TMP1	=	00000002		
SS.TMP2	=	00000052		
BIT...	=	0000000C		
FABS_B_DNS	=	00000035		
FABS_B_FNS	=	00000034		
FABS_L_DNA	=	00000030		
FABS_L_FNA	=	0000002C		
FABS_L_FOP	=	00000004		
FABS_L_NAM	=	00000028		
FABS_V_NAM	=	00000018		
LIB\$FREE_VM		*****	X	04
LIB\$GET_VM		*****	X	04
NAM\$B_ESS	=	0000000A		
NAM\$B_RSS	=	00000002		
NAM\$K_BLN	=	00000060		
NAM\$L_ESA	=	0000000C		
NAM\$L_RLF	=	00000010		
NAM\$L_RSA	=	00000004		
RETURN_FNS		000000E1	R	04
RM\$S_FNF		*****	X	04
SIZ...	=	00000001		
SUM\$BLSZE		*****	X	04
SUM\$CLOSE_ERR		*****	X	04
SUM\$FAB		*****	X	04
SUM\$LIB_ERR		*****	X	04
SUM\$OPEN		00000000	RG D	04
SUM\$OPEN_ERR		*****	X	04
SUM_DEFNAME		00000000	R	02
SUM_MAXRSS		00000005	R	02
SUM_M_AUDIT	=	00000001		
SUM_M_AUDITNEW	=	00000002		
SUM_M_DELETE	=	00000010		
SUM_M_SRCUPD	=	00000004		
SUM_M_SUBCLSH	=	00000008		
SUM_V_AUDIT	=	00000000		
SUM_V_AUDITNEW	=	00000001		
SUM_V_DELETE	=	00000004		
SUM_V_SRCUPD	=	00000002		
SUM_V_SUBCLSH	=	00000003		
SY\$CLOSE		*****	GX	04
SY\$OPEN		*****	GX	04
UPF_B_EDFLAGS		00000009		
UPF_B_FIFLAGS		00000008		
UPF_B_FILENO		0000000C		
UPF_K_BLN		00000098		
UPF_L_PTR		00000000		
UPF_Q_AUDDS		00000018		
UPF_Q_CMNT		00000020		
UPF_Q_EDITS		00000010		
UPF_T_AUDST		00000028		
UPF_T_NAM		00000038		
UPF_W_DOT		0000000A		
UPF_W_LOC1		00000004		
UPF_W_LOC2		00000006		

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000098 ( 152.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
SUM\$RO_DATA	00000009 ( 9.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
SUM\$RW_DATA	00000000 ( 0.)	03 ( 3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SUM\$CODE	000000F4 ( 244.)	04 ( 4.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC LONG

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.09	00:00:00.31
Command processing	105	00:00:00.53	00:00:02.22
Pass 1	194	00:00:04.29	00:00:09.68
Symbol table sort	0	00:00:00.40	00:00:00.89
Pass 2	55	00:00:00.87	00:00:02.16
Symbol table output	7	00:00:00.07	00:00:00.25
Psect synopsis output	2	00:00:00.03	00:00:00.11
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	394	00:00:06.29	00:00:15.63

The working set limit was 1200 pages.  
21065 bytes (42 pages) of virtual memory were used to buffer the intermediate code.  
There were 20 pages of symbol table space allocated to hold 379 non-local and 9 local symbols.  
211 source lines were read in Pass 1, producing 20 object records in Pass 2.  
17 pages of virtual memory were used to define 15 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
-\$255\$DUA28:[SUM.OBJ]SUM.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	9
TOTALS (all libraries)	11

492 GETS were required to define 11 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SUMOPEN/OBJ=OBJ\$:SUMOPEN MSRC\$:SUMOPEN/UPDATE=(ENH\$:SUMOPEN)+LIB\$:SUM/LIB



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