

```

MMM                MMM                AAAAAAAAAA                IIIIIIIIIII                LLL
MMM                MMM                AAAAAAAAAA                IIIIIIIIIII                LLL
MMM                MMM                AAAAAAAAAA                IIIIIIIIIII                LLL
MMMMMMMM          MMMMMMM          AAA                AAA                III                LLL
MMMMMMMM          MMMMMMM          AAA                AAA                III                LLL
MMMMMMMM          MMMMMMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAAAAAAAAAAAAAAAAA                III                LLL
MMM              MMM              MMM          AAAAAAAAAAAAAAAAAA                III                LLL
MMM              MMM              MMM          AAAAAAAAAAAAAAAAAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                IIIIIIIIIII                LLLLLLLLLLLLLLLLLL
MMM              MMM              MMM          AAA                AAA                IIIIIIIIIII                LLLLLLLLLLLLLLLLLL
MMM              MMM              MMM          AAA                AAA                IIIIIIIIIII                LLLLLLLLLLLLLLLLLL

```

```
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  NN      NN  EEEEEEEEE  WW      WW
GGGGGGGG  EEEEEEEEE  TTTTTTTTT  NN      NN  EEEEEEEEE  WW      WW
GG      GG  EE      TT      NN      NN  EE      WW      WW
GG      GG  EE      TT      NN      NN  EE      WW      WW
GG      GG  EE      TT      NNNN     NN  EE      WW      WW
GG      GG  EE      TT      NNNN     NN  EE      WW      WW
GG      GG  EEEEEEEE  TT      NN      NN  EEEEEEEE  WW      WW
GG      GG  EEEEEEEE  TT      NN      NN  EEEEEEEE  WW      WW
GG      GG  EE      TT      NN      NN  EE      WW      WW
GG      GG  EE      TT      NN      NN  EE      WW      WW
GG      GG  EE      TT      NN      NN  EE      WWW     WWW
GGGGGGG  EEEEEEEEE  TT      NN      NN  EEEEEEEEE  WW      WW
GGGGGGG  EEEEEEEEE  TT      NN      NN  EEEEEEEEE  WW      WW
```

```
LL      IIIII  SSSSSSSS
LL      IIIII  SSSSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SSSSSS
LL      II     SSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LLLLLLLLL  IIIII  SSSSSSSS
LLLLLLLLL  IIIII  SSSSSSSS
```



```
1 0001 0 MODULE MAIL$GETNEW (
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 OTHER
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: VAX/VMS MAIL UTILITY
33 0033 1
34 0034 1 ABSTRACT: Find user's new mail count. Used by LOGINOUT.
35 0035 1
36 0036 1 ENVIRONMENT: NATIVE/USER MODE
37 0037 1
38 0038 1 AUTHOR: Benn Schreiber, CREATION DATE: 10-Jul-1983
39 0039 1
40 0040 1 MODIFIED BY:
41 0041 1
42 0042 1 V03-004 BLS0266 Benn Schreiber 26-Jan-1984
43 0043 1 Correct username offset reference.
44 0044 1
45 0045 1 V03-003 BLS0260 Benn Schreiber 12-Jan-1984
46 0046 1 Account for UAF$$_USERNAME being 32 bytes now.
47 0047 1
48 0048 1 V03-002 BLS0246 Benn Schreiber 8-Nov-1983
49 0049 1 Move new mail count into VMSMAIL.DAT
50 0050 1 --
```


MAIL\$GETNEW
V04-000

B 16
16-Sep-1984 00:53:12
14-Sep-1984 12:42:18

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]GETNEW.B32;1 Page 2 (2)

```
: 52      0051 1 |
: 53      0052 1 | INCLUDE FILES
: 54      0053 1 |
: 55      0054 1 | LIBRARY 'SYSS$LIBRARY:LIB';
: 56      0055 1 | REQUIRE 'SRC$:MAILREQ';
: 57      0201 1 | LIBRARY 'LIB$:MAILDEF';
: 58      0202 1 |
: 59      0203 1 | EXTERNAL ROUTINE
: 60      0204 1 | UTIL$REPORT_IO_ERROR;          !Report io error
: 61      0205 1 |
: 62      0206 1 | BIND
: 63      0207 1 | VMSMAIL_DESC = $DESCRIPTOR('VMSMAIL') : $BBLOCK,
: 64      0208 1 | SYSEXEC_DESC = $DESCRIPTOR('SYSS$SYSTEM:.DAT') : $BBLOCK;
```



```

: 66      0209 1 GLOBAL ROUTINE MAIL$GET_NEW_COUNT(NEWCOUNT,UAFREC,SYMAIREC) =
: 67      0210 1 ++
: 68      0211 1 FUNCTIONAL DESCRIPTION:
: 69      0212 1
: 70      0213 1     Return the count of new mail messages.
: 71      0214 1
: 72      0215 1 Inputs:
: 73      0216 1
: 74      0217 1     newcount = address of a longword to receive the new message count.
: 75      0218 1     returned as -1 if the mail file is sequential, rather than isam
: 76      0219 1     uafrec = address of buffer containing SYSUAF record for user
: 77      0220 1     sysmairec = (optional) address of buffer containing users' vmsmail rec.
: 78      0221 1
: 79      0222 1 Outputs:
: 80      0223 1
: 81      0224 1     longword pointed to by newcount contains number of new messages.
: 82      0225 1
: 83      0226 1 Routine value:
: 84      0227 1
: 85      0228 1     1 if success, failure code if error
: 86      0229 1
: 87      0230 1 All errors signalled.
: 88      0231 1
: 89      0232 1 --
: 90      0233 2 BEGIN
: 91      0234 2 MAP
: 92      0235 2     NEWCOUNT : REF VECTOR[,LONG],
: 93      0236 2     UAFREC : REF $BBLOCK,
: 94      0237 2     SYMAIREC : REF $BBLOCK;
: 95      0238 2
: 96      0239 2 BUILTIN
: 97      0240 2     NULLPARAMETER;
: 98      0241 2
: 99      0242 2 LOCAL
100      0243 2     SYMAIFAB : $FAB_DECL,
101      0244 2     SYMAIRAB : $RAB_DECL,
102      0245 2     STATUS,
103      0246 2     USEBUF : REF $BBLOCK,
104      0247 2     SYMAIBUF : $BBLOCK[VMD_C_USERNAME+3*NAM$C_MAXRSS];
105      0248 2
106      0249 2 NEWCOUNT[0] = 0;
107      0250 2 STATUS = TRUE;
108      0251 2
109      0252 2 IF NOT NULLPARAMETER(3)
110      0253 2 THEN USEBUF = .SYMAIREC
111      0254 2 ELSE BEGIN
112      0255 3     USEBUF = SYMAIBUF;
113      0256 3
114      0257 3     ! Need to open VMSMAIL to find new mail count
115      0258 3
116      P 0259 3     $FAB_INIT(FAB=SYMAIFAB,
117      P 0260 3     FAC=GET,
118      P 0261 3     FNS=.VMSMAIL_DESC[DSC$W_LENGTH],
119      P 0262 3     FNA=.VMSMAIL_DESC[DSC$A_POINTER],
120      P 0263 3     DNS=.SYSEXEC_DESC[DSC$W_LENGTH],
121      P 0264 3     DNA=.SYSEXEC_DESC[DSC$A_POINTER],
122      0265 3     SHR=(GET,PUT,DEL,UPD));
```



```
123 0266
124 0267
125 0268
126 0269
127 P 0270
128 P 0271
129 P 0272
130 P 0273
131 P 0274
132 P 0275
133 P 0276
134 P 0277
135 P 0278
136 0279
137 0280
138 0281
139 0282
140 0283
141 0284
142 0285
143 0286
144 0287
145 0288
146 0289
147 0290
148 0291
149 0292
150 0293
151 0294
152 0295
153 0296
154 0297
155 0298
156 0299
157 0300
158 0301
159 0302
160 0303

SYSMAIFAB[FAB$V_LNM_MODE] = PSL$C_EXEC;
STATUS = $OPEN(FAB=SYSMAIFAB);

$RAB_INIT(RAB=SYSMAIRAB,
FAB=SYSMAIFAB,
RAC=KEY,
ROP=(RLK,NLK),
KRF=0,
KSZ=VMD_C_USERNAME,
KBF=SYSMAIBUF,
RBF=SYSMAIBUF,
USZ=VMD_C_LENGTH+3*NAM$C_MAXRSS,
UBF=SYSMAIBUF);

IF .STATUS
THEN STATUS = $CONNECT(RAB=SYSMAIRAB);

IF NOT .STATUS
AND .STATUS EQL RMS$ CRMP
THEN STATUS = (SYSMAIFAB[FAB$W_GBC] = 0;
$CONNECT(RAB=SYSMAIRAB));

! Read the user's VMSMAIL record
CH$COPY(MINU(UAF$S_USERNAME,VMD_C_USERNAME),UAFREC[UAF$T_USERNAME],
,VMD_C_USERNAME,SYSMAIBUF);
SYSMAIBUF[VMD_B_DIRLNG] = 0;
IF .STATUS
THEN STATUS = $GET(RAB=SYSMAIRAB);
$CLOSE(FAB=SYSMAIFAB);
END;

IF .STATUS
THEN NEWCOUNT[0] = .SYSMAIBUF[VMD_W_MAIL];

RETURN .STATUS
END;
```

```
54 41 44 2E 3A 4D 45 54 53 59 53 24 53 59 53 00000 P.AAB: .ASCII \VMSMAIL\
00007 00007 P.AAA: .BLKB 1
00000007 00008 P.AAA: .LONG 7
00000000 0000C P.AAB: .ADDRESS P.AAB
00010 P.AAD: .ASCII \SYS$SYSTEM:.DAT\
0001F 0001F P.AAD: .BLKB 1
0000000F 00020 P.AAC: .LONG 15
00000000 00024 P.AAC: .ADDRESS P.AAD

VMSMAIL_DESC= P.AAA
SYSEXE_DESC= P.AAC
.EXTRN UTIL$REPORT_IO_ERROR
```


				01FC 00000				
			58	00000000G	00	9E	00002	
			57	D8	AF	9E	00009	
			5E	FC50	CE	9E	0000D	
				04	BC	D4	00012	
			56		01	D0	00015	
			03		6C	91	00018	
					0C	1F	0001B	
				0C	AC	D5	0001D	
					07	13	00020	
			50	0C	AC	D0	00022	
					00C8	31	00026	
			50		6E	9E	00029	1\$:
0050	8F	00	6E		00	2C	0002C	
				B0	AD		00033	
				5003	8F	B0	00035	
				0F02	8F	B0	0003B	
					02	90	00041	
					67	D0	00045	
					A7	D0	00049	
				18	A7	90	0004E	
				FC	A7	90	00053	
				14	A7	90	00053	
FA	AD	02	00		01	F0	00058	
				B0	AD	9F	0005E	
			00000000G		01	FB	00061	
					50	D0	00068	
0044	8F	00	6E		00	2C	0006B	
				FF6C	CD		00072	
				4401	8F	B0	00075	
				00180000	8F	D0	0007C	
					01	90	00085	
					8F	B0	00089	
				0341	6E	9E	0008F	
					6E	9E	00093	
					6E	9E	00097	
					1F	90	0009B	
					AD	9E	0009F	
				B0	AD	9E	0009F	
					56	E9	000A4	
				FF6C	CD	9F	000A7	
					01	FB	000AB	
			68		50	D0	000AE	
			56		56	E8	000B1	
			16		56	D1	000B4	2\$:
0001C14C			8F		0D	12	000BB	
					AD	B4	000BD	
				F8	CD	9F	000C0	
				FF6C	01	FB	000C4	
			68		50	D0	000C7	
			56		AC	D0	000CA	3\$:
			50	08	1F	28	000CE	
6E	04		A0		AE	94	000D3	
				41	56	E9	000D6	
			0E		CD	9F	000D9	
				FF6C	CD	9F	000D9	

.EXTRN	SYSS\$OPEN, SYSS\$CONNECT	
.EXTRN	SYSS\$GET, SYSS\$CLOSE	
.ENTRY	MAIL\$GET_NEW_COUNT, Save R2,R3,R4,R5,R6,R7,-;	0209
	R8	
MOVAB	SYSS\$CONNECT, R8	
MOVAB	VMSMAIL_DESC+4, R7	
MOVAB	-944(SPT, SP	
CLRL	@NEWCOUNT	0249
MOVL	#1, STATUS	0250
CMPB	(AP), #3	0252
BLSSU	1\$	
TSTL	12(AP)	
BEQL	1\$	
MOVL	SYSMAIREC, USEBUF	0253
BRW	5\$	
MOVAB	SYSMAIBUF, USEBUF	0255
MOVCS	#0, (SP), #0, #80, \$RMS_PTR	0265
MOVW	#20483, \$RMS_PTR	
MOVW	#3842, \$RMS_PTR+22	
MOVW	#2, \$RMS_PTR+31	
MOVL	VMSMAIL_DESC+4, \$RMS_PTR+44	
MOVL	SYSEXEC_DESC+4, \$RMS_PTR+48	
MOVW	VMSMAIL_DESC, \$RMS_PTR+52	
MOVW	SYSEXEC_DESC, \$RMS_PTR+53	
INSV	#1, #0, #2, SYSMAIFAB+74	0267
PUSHAB	SYSMAIFAB	0268
CALLS	#1, SYSS\$OPEN	
MOVL	R0, STATUS	
MOVCS	#0, (SP), #0, #68, \$RMS_PTR	0279
MOVW	#17409, \$RMS_PTR	
MOVL	#1572864, \$RMS_PTR+4	
MOVW	#1, \$RMS_PTR+30	
MOVW	#833, \$RMS_PTR+32	
MOVAB	SYSMAIBUF, \$RMS_PTR+36	
MOVAB	SYSMAIBUF, \$RMS_PTR+40	
MOVAB	SYSMAIBUF, \$RMS_PTR+48	
MOVW	#31, \$RMS_PTR+52	
MOVAB	SYSMAIFAB, \$RMS_PTR+60	
BLBC	STATUS, 2\$	0281
PUSHAB	SYSMAIRAB	0282
CALLS	#1, SYSS\$CONNECT	
MOVL	R0, STATUS	
BLBS	STATUS, 3\$	0284
CMPL	STATUS, #115020	0285
BNEQ	3\$	
CLRW	SYSMAIFAB+72	0286
PUSHAB	SYSMAIRAB	0287
CALLS	#1, SYSS\$CONNECT	
MOVL	R0, STATUS	
MOVL	UAFREC, R0	0291
MOVCS	#31, 4(R0), SYSMAIBUF	
CLRB	SYSMAIBUF+65	0293
BLBC	STATUS, 4\$	0294
PUSHAB	SYSMAIRAB	0295

MAIL\$GETNEW
V04-000

F 16
16-Sep-1984 00:53:12
14-Sep-1984 12:42:18

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]GETNEW.B32;1
Page 6
(3)

00000000G	00	01	FB	000DD	CALLS	#1, SYSS\$GET	:
	56	50	DO	000E4	MOVL	R0, STATUS	:
		B0	AD	9F 000E7	PUSHAB	SY\$MAIFAB	: 0296
00000000G	00	01	FB	000EA	CALLS	#1, SYSS\$CLOSE	:
	05	56	E9	000F1	BLBC	STATUS, 6\$	: 0299
04	BC	21	AE	3C 000F4	MOVZWL	SY\$MAIBUF+33, @NEWCOUNT	: 0300
	50	56	DO	000F9	MOVL	STATUS, R0	: 0302
			04	000FC	RET		: 0303

; Routine Size: 253 bytes, Routine Base: \$CODE\$ + 0028

MAIL\$GETNEW
V04-000

G 16
16-Sep-1984 00:53:12
14-Sep-1984 12:42:18

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]GETNEW.B32;1 Page 7 (4)

: 162 0304 0 END ELUDOM

PSECT SUMMARY

:
: Name Bytes Attributes
: \$CODE\$ 293 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

:
: File Total Symbols Loaded Percent Pages Mapped Processing Time
: \$255\$DUA28:[SYSLIB]LIB.L32;1 18619 92 0 1000 00:01.4
: \$255\$DUA28:[MAIL.OBJ]MAILDEF.L32;1 457 4 0 26 00:00.4

COMMAND QUALIFIERS

:
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:GETNEW/OBJ=OBJ\$:GETNEW MSRC\$:GETNEW/UPDATE=(ENH\$:GETNEW)

: Size: 253 code + 40 data bytes
: Run Time: 00:07.4
: Elapsed Time: 00:41.4
: Lines/CPU Min: 2468
: Lexemes/CPU-Min: 47139
: Memory Used: 138 pages
: Compilation Complete

0228 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

