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0001 0 MODIILE MESSAGE (%TITLE 'Print Symbiont -- message routines'
0002 0 IDENT = 'V04-000',
0003 0 ADDRESSING_MODE (EXTERNAL = GENERAL)
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
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0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1
0032 1 ++
0033 1 FACILITY:
0034 1 Print Symbiont.
0035 1
0036 1 ABSTRACT:
0037 1 Processes messages received from the job controller.
0038 1
0039 1 ENVIRONMENT:
0040 1 VAX/VMS user mode.
0041 1 --
0042 1
0043 1 AUTHOR: G. Robert, CREATION DATE: 31-Aug-1982
0044 1
0045 1 MODIFIED BY:
0046 1
0047 1 3B-007 RRB3007 Rowland R. Bradley 20-Jul-1984
0048 1 Change Signal_Stop(...,PSMS_INVREQCOD) to CODEERR_.
0049 1
0050 1 3B-006 GRR3006 Gregory R. Robert 29-Apr-1984
0051 1 FT2 bugfixes. Call output routine with explicit OPEN
0052 1 and CLOSE functions.
0053 1
0054 1 3B-005 RRB3005 Rowland R. Bradley 27-Apr-1984
0055 1 Properly increment the job burst character. Added the
0056 1 reference to last_entry_number.
0057 1

```

MESSAGE
V04-000

Print Symbiont -- message routines

F 9
16-Sep-1984 02:20:24 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:55:09 [PRTSMB.SRC]MESSAGE.B32;1

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(1)

MES
V04

58	0058	1	3B-004	GRR3004	Gregory R. Robert	23-Mar-1984
59	0059	1		Replace burst_character with job_burst_char and		
60	0060	1		file_burst_char.		
61	0061	1				
62	0062	1	3B-003	GRR3003	Gregory R. Robert	23-Aug-1983
63	0063	1		Bugfixes, page_setup_modules, form_setup_modules,		
64	0064	1		sheet_feed, symbiont_initiated_pause_task and stop_stream,		
65	0065	1		hangup code, read and write item services		
66	0066	1				
67	0067	1	3B-002	GRR3002	Gregory R. Robert	03-Aug-1983
68	0068	1		Rewrite for new design.		
69	0069	1				
70	0070	1	3B-001	GRR3001	Gregory R. Robert	23-Jul-1983
71	0071	1		Created new module.		
72	0072	1				
73	0073	1				
74	0074	1				**

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```
.. 76      0075 1 LIBRARY 'SYSS$LIBRARY:LIB';  
.. 77      0076 1 REQUIRE 'LIB$:SMBDEF';  
.. 78      0568 1 REQUIRE 'SRC$:SMBREQ';  
.. 79      1025 1  
.. 80      1026 1 EXTERNAL ROUTINE  
.. 81      1027 1     PSMS$ALLOCATE_SCB,  
.. 82      1028 1     PSMS$FUNCTION_DISPATCH,  
.. 83      1029 1     PSMS$INITIALIZE_SCB,  
.. 84      1030 1     SMB$READ_MESSAGE,  
.. 85      1031 1     PSMS$RESET_SCB,  
.. 86      1032 1     SMB$SEND_TO_JOBCTL,  
.. 87      1033 1     PSMS$STORE_ERRORS,  
.. 88      1034 1     PSMS$UPDATE_SCB  
.. 89      1035 1     ;  
.. 90      1036 1  
.. 91      1037 1 EXTERNAL  
.. 92      1038 1     PSMS$GL_SCBVEC      : VECTOR,  
.. 93      1039 1     PSMS$SRV      : BLOCKVECTOR[,SRV_S_SRV, BYTE]  
.. 94      1040 1     ;  
.. 95      1041 1  
.. 96      1042 1 FORWARD ROUTINE  
.. 97      1043 1     PSMS$RECEIVE_MESSAGE_AST ,  
.. 98      1044 1  
.. 99      1045 1     KEEP_ALIVE          : NOVALUE,  
100     1046 1     NOTIFY_ALL           :  
101     1047 1     PAUSE_TASK           : NOVALUE,  
102     1048 1     RESUME_TASK          : NOVALUE,  
103     1049 1     START_STREAM        : NOVALUE,  
104     1050 1     START_TASK          : NOVALUE,  
105     1051 1     STOP_STREAM         : NOVALUE,  
106     1052 1     STOP_TASK           : NOVALUE  
107     1053 1     ;  
108     1054 1  
109     1055 1 OWN  
110     1056 1     TIMER_ACTIVE      : WORD  
111     1057 1     ;
```

```

113 1058 1 %SBTTL 'RECEIVE_MESSAGE_AST'
114 1059 1 Functional Description:
115 1060 1 ?desc
116 1061 1
117 1062 1 Formal Parameters:
118 1063 1 ?desc
119 1064 1 Implicit Inputs:
120 1065 1 none
121 1066 1
122 1067 1 Implicit Outputs:
123 1068 1 none
124 1069 1
125 1070 1 Returned Value:
126 1071 1 none
127 1072 1
128 1073 1 Side Effects:
129 1074 1 none
130 1075 1 --
131 1076 1 GLOBAL ROUTINE PSM$RECEIVE_MESSAGE_AST
132 1077 1 =
133 1078 2 BEGIN
134 1079 2
135 1080 2 OWN
136 1081 2 MSGSRV_TABLE : VECTOR [8] PSECT (CODE) PRESET (
137 1082 2 [0] = 0,
138 1083 2 [SMBMSG$K_PAUSE_TASK] = PAUSE_TASK,
139 1084 2 [SMBMSG$K_RESET_STREAM] = STOP_STREAM,
140 1085 2 [SMBMSG$K_RESUME_TASK] = RESUME_TASK,
141 1086 2 [SMBMSG$K_START_STREAM] = START_STREAM,
142 1087 2 [SMBMSG$K_START_TASK] = START_TASK,
143 1088 2 [SMBMSG$K_STOP_STREAM] = STOP_STREAM,
144 1089 2 [SMBMSG$K_STOP_TASK] = STOP_TASK)
145 1090 2 ;
146 1091 2
147 1092 2 LOCAL
148 1093 2 MSG_DESC : $DYNAMIC_DESC,
149 1094 2 NOTIFY_STATUS ,
150 1095 2 REQUEST ,
151 1096 2 SCB : REF $BLOCK,
152 1097 2 STREAM ,
153 1098 2 ;
154 1099 2
155 1100 2 SIGNAL_IF_ERROR_ (SMB$READ_MESSAGE (STREAM, MSG_DESC, REQUEST));
156 1101 2
157 1102 2 IF .REQUEST GEQU %ALLOCATION (MSGSRV_TABLE) / 4
158 1103 2 OR .MSGSRV_TABLE [.REQUEST] EQL 0
159 1104 2 THEN
160 1105 2 CODEERR_ ;
161 1106 2
162 1107 2 SCB = .PSM$GL_SCBVEC [.STREAM];
163 1108 2
164 1109 2 IF .SCB EQL 0
165 1110 2 THEN
166 1111 2 BEGIN
167 1112 2 PSM$ALLOCATE_SCB (SCB);
168 1113 2 PSM$INITIALIZE_SCB (.SCB);
169 1114 2 PSM$GL_SCBVEC [.STREAM] = .SCB;

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170 1115 3 SCB[PSM$STREAM_INDEX] = .STREAM;
171 1116 3 SCB[PSM$FILE_BURST_CHAR] = %C '2';
172 1117 3 SCB[PSM$JOB_BURST_CHAR] = %C '9';
173 1118 3 END;
174 1119 3
175 1120 3
176 1121 3 IF .REQUEST EQL SMBMSG$K_START_STREAM
177 1122 3 THEN
178 1123 3 BEGIN
179 1124 3 VECTOR [SCB[PSM$CONDITION_AREA],0] = 0;
180 1125 3 SCB[PSM$SERVICE_STATUS] = SSS_NORMAL;
181 1126 3 END;
182 1127 3
183 1128 3
184 1129 3 IF .REQUEST EQL SMBMSG$K_START_TASK
185 1130 3 THEN
186 1131 3 PSM$RESET_SCB (.SCB);
187 1132 3
188 1133 3
189 1134 3 ! If currently paused by job controller then clear pending
190 1135 3 !
191 1136 3 IF TESTBITSC (SCB[PSM$V_RESUME_WAIT])
192 1137 3 THEN
193 1138 3 SCB[PSM$SERVICE_STATUS] = SSS_NORMAL;
194 1139 3
195 1140 3
196 1141 3 SCB [PSM$REQUEST_RESPONSE] = .REQUEST;
197 1142 3 PSM$UPDATE_SCB (.SCB, MSG_DESC);
198 1143 3
199 1144 3 NOTIFY_STATUS = NOTIFY_ALL (.SCB, .REQUEST);
200 1145 3
201 1146 3 IF NOT .NOTIFY_STATUS THEN PSM$STORE_ERRORS (SCB, .NOTIFY_STATUS);
202 1147 3
203 1148 3 BLISS (.MSGSRV_TABLE [.REQUEST], .SCB);
204 1149 3
205 1150 3 SSS_NORMAL
206 1151 3
207 1152 1 END;

```

```

.TITLE MESSAGE Print Symbiont -- message routines
.IDENT \V04-000\
.PSECT DATA,NOEXE,2
00000 TIMER_ACTIVE:
.BLKB 2
.PSECT CODE,NOWRT,2
00000000 00000 MSGSRV_TABLE:
.LONG 0
.ADDRESS PAUSE_TASK, STOP_STREAM, RESUME_TASK, -
START_STREAM, START_TASK, STOP_STREAM, -
STOP_TASK
.EXTRN BASS$EDIT, LBR$CLOSE

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.EXTRN LBR$GET RECORD, LBR$INI CONTROL
.EXTRN LBR$LOOKUP KEY, LBR$OPEN
.EXTRN LBR$RET RMSSTV, LBR$SET_LOCATE
.EXTRN LIB$TRIM FILESPEC
.EXTRN LIB$GET_VM, LIB$FREE_VM
.EXTRN STR$ANALYZE_SDESC
.EXTRN STR$ANALYZE_SDESC_R1
.EXTRN STR$APPEND, STR$CONCAT
.EXTRN STR$COPY_DX, STR$COPY_R
.EXTRN STR$FREET_DX, STR$FREE1_DX_R4
.EXTRN STR$GET1_DX, STR$LEFT
.EXTRN STR$PREFIX, STR$RIGHT
.EXTRN PSMS_HANGUP_DISPATCH_ENTRY
.EXTRN PSMS_BUFFEROVF, PSMS_EOF
.EXTRN PSMS_ESCAPE, PSMS_FLUSH
.EXTRN PSMS_FUNNOTSUP, PSMS_INVITMCOB
.EXTRN PSMS_INVVMSOSC, PSMS_MODNOTFND
.EXTRN PSMS_NEWPAGE, PSMS_NOFILEID
.EXTRN PSMS_OSCTOOLON, PSMS_PENDING
.EXTRN PSMS_SUSPEND, PSMS_TOOMANYLEV
.EXTRN SMBS_INVSTMNBR, SMBS_INVSTRLEV
.EXTRN SMBS_NOMOREITEMS
.EXTRN PSMS$ALLOCATE_SCB
.EXTRN PSMS$FUNCTION_DISPATCH
.EXTRN PSMS$INITIALIZE_SCB
.EXTRN SMBS$READ_MESSAGE
.EXTRN PSMS$RESET_SCB, SMBS$SEND_TO_JOBCTL
.EXTRN PSMS$STORE_ERRORS
.EXTRN PSMS$UPDATE_SCB, PSMS$GL_SCBVEC
.EXTRN PSMS$SRV

```

```

003C 00000 .ENTRY PSMS$RECEIVE_MESSAGE_AST, Save R2,R3,R4,R5 : 1076
OC 5E 14 C2 00002 SUBL2 #20, SP : 1093
OC AE 020E0000 8F D0 00005 MOVL #34471936, MSG_DESC : 1100
10 AE D4 0000D CLRL MSG_DESC+4 : 1102
10 SE DD 00010 PUSHL SP : 1103
OC AE 9F 00012 PUSHAB MSG_DESC : 1104
OC AE 9F 00015 PUSHAB STREAM : 1107
00000000G 00 03 FB 00018 CALLS #3, SMBS$READ_MESSAGE : 1109
52 50 D0 0001F MOVL R0, STATUS : 1112
J9 52 E8 00022 BLBS STATUS, 1$ : 1112
52 DD 00025 PUSHL STATUS : 1112
00000000G 00 01 FB 00027 CALLS #1, LIB$SIGNAL : 1112
54 6E D0 0002E 1$: MOVL REQUEST, R4 : 1102
08 54 D1 00031 CMLL R4, #8 : 1103
A6 AF44 06 1E 00034 BGEQU 2$ : 1103
AF44 D5 00036 TSTL MSGSRV_TABLE[R4] : 1104
OF 12 0003A BNEQ 3$ : 1104
01 DD 0003C 2$: PUSHL #1 : 1104
01061154 8F DD 0003E PUSHL #17174868 : 1107
00000000G 00 02 FB 00044 CALLS #2, LIB$STOP : 1107
53 04 AE D0 0004B 3$: MOVL STREAM, R3 : 1107
55 00000000G0043 DE 0004F MOVAL PSMS$GL_SCBVEC[R3], R5 : 1109
08 AE 65 D0 00057 MOVL (R5), SCB : 1112
2A 12 0005B BNEQ 4$ : 1109
08 AE 9F 0005D PUSHAB SCB : 1112
00000000G 00 01 FB 00060 CALLS #1, PSMS$ALLOCATE_SCB :

```


	52	08	AE	D0	00067	MOVL	SCB, R2	:	1113	
			52	DD	0006B	PUSHL	R2	:		
00000000G	00		01	FB	0006D	CALLS	#1, PSM\$INITIALIZE_SCB	:		
	65		52	D0	00074	MOVL	R2, (R5)	:	1114	
022C	C2		53	D0	00077	MOVL	R3, 556(R2)	:	1115	
02A4	C2	5A	8F	90	0007C	MOVB	#90, 676(R2)	:	1116	
02A6	C2		39	90	00082	MOVB	#57, 678(R2)	:	1117	
	04		54	D1	00087	4\$:	CML	R4, #4	:	1121
			0D	12	0008A	BNEQ	5\$:		
	50	08	AE	D0	0008C	MOVL	SCB, R0	:	1124	
		028E	C0	D4	00090	CLRL	654(R0)	:		
0220	C0		01	D0	00094	MOVL	#1, 544(R0)	:	1125	
	05		54	D1	00099	5\$:	CML	R4, #5	:	1129
			0A	12	0009C	BNEQ	6\$:		
00000000G	00	08	AE	DD	0009E	PUSHL	SCB	:	1131	
			01	FB	000A1	CALLS	#1, PSM\$RESET_SCB	:		
05	10	08	AE	D0	000A8	6\$:	MOVL	SCB, R3	:	1136
	A3		0B	E5	000AC	B3CC	#11, 16(R3), 7\$:		
0220	C3		G1	D0	000B1	MOVL	#1, 544(R3)	:	1138	
0144	C3		54	D0	000B6	7\$:	MOVL	R4, 324(R3)	:	1141
		0C	AE	9F	000BB	PUSHAB	MSG_DESC	:	1142	
			53	DD	000BE	PUSHL	R3	:		
00000000G	00		02	FB	000C0	CALLS	#2, PSM\$UPDATE_SCB	:		
			18	BB	000C7	PUSHR	#^M<R3,R4>	:	1144	
0000V	CF		02	FB	000C9	CALLS	#2, NOTIFY_ALL	:		
	0C		50	E8	000CE	BLBS	NOTIFY_STATUS, 8\$:	1146	
			50	DD	000D1	PUSHL	NOTIFY_STATUS	:		
00000000G	00	0C	AE	9F	000D3	PUSHAB	SCB	:		
			02	FB	000D6	CALLS	#2, PSM\$STORE_ERRORS	:		
	50	FEFE	CF44	D0	000DD	8\$:	MOVL	MSGSRV_TABLE[R4], R0	:	1148
		08	AE	DD	000E3	PUSHL	SCB	:		
	60		01	FB	000E6	CALLS	#1, (R0)	:		
	50		01	D0	000E9	MOVL	#1, R0	:	1152	
			04	000EC		RET		:		

; Routine Size: 237 bytes, Routine Base: CODE + 0020

```

209 1153 1 %SBTTL 'KEEP_ALIVE'
210 1154 1 Functional-Description:
211 1155 1 ?desc
212 1156 1
213 1157 1 Formal Parameters:
214 1158 1 ?desc
215 1159 1 Implicit Inputs:
216 1160 1 none
217 1161 1
218 1162 1 Implicit Outputs:
219 1163 1 none
220 1164 1
221 1165 1 Returned Value:
222 1166 1 none
223 1167 1
224 1168 1 Side Effects:
225 1169 1 none
226 1170 1 --
227 1171 1 ROUTINE KEEP_ALIVE (
228 1172 1     STARTUP
229 1173 1 ) : NOVALUE =
230 1174 2 BEGIN
231 1175 2
232 1176 2 PARAMETER_INDEX_ (STARTUP):
233 1177 2
234 1178 2 LOCAL
235 1179 2     BUSY_STREAM      : INITIAL (0)
236 1180 2     ;
237 1181 2
238 1182 2 DECR I FROM PSM$K_MAXSTREAMS - 1
239 1183 2 DO
240 1184 3     BEGIN
241 1185 3     LOCAL SCB      : REF $BBLOCK;
242 1186 3     SCB = .PSM$GL_SCBVEC [I];
243 1187 3     IF .SCB NEQ 0
244 1188 3     THEN
245 1189 3         IF .SCB[PSM$V_BUSY]
246 1190 3         THEN
247 1191 4             BEGIN
248 1192 4             BUSY_STREAM = 1;
249 1193 4             IF .SCB[PSM$L_REQUEST_RESPONSE] NEQ SMBMSG$K_PAUSE_TASK
250 1194 4             AND NOT .SCB[PSM$V_SUPPRESS_OUTPUT]
251 1195 4             THEN
252 1196 4                 IF .SCB[PSM$L_KEEP_ALIVE] EQL .SCB[PSM$L_OUTPUT_QIOS]
253 1197 4                 THEN
254 1198 5                     BEGIN
255 1199 5                     IF TESTBITCS
256 1200 5                     ($BBLOCK[SCB[PSM$L_DEVICE_STATUS],SMBMSG$V_STALLED])
257 1201 5                     THEN
258 1202 5                         SMB$SEND TO JOBCTL (
259 1203 5                             SCB[PSM$L_STREAM_INDEX],      ! - stream number
260 1204 5                             0,                               ! - asynchronous response
261 1205 5                             0,                               ! - no accounting
262 1206 5                             0,                               ! - no checkpoint
263 1207 5                             SCB[PSM$L_DEVICE_STATUS]    ! - device status
264 1208 5                         );
265 1209 5     END

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: 266      1210 4      ELSE
: 267      1211 4      SCB[PSM$L_KEEP_ALIVE] = .SCB[PSM$L_OUTPUT_QIOS];
: 268      1212 3      END;
: 269      1213 2      END;
: 270      1214 2
: 271      1215 2      IF .BUSY_STREAM
: 272      1216 2      THEN
: 273      1217 3      BEGIN
: 274      1218 3      SIGNAL_IF_ERROR ($SETIMR (DAYTIM=UPLIT(-300000000,-1), ASTADR=KEEP_ALIVE));
: 275      1219 3      TIMER_ACTIVE = T;
: 276      1220 3      END
: 277      1221 2      ELSE
: 278      1222 2      TIMER_ACTIVE = 0;
: 279      1223 2
: 280      1224 1      END;

```

```

FFFFFFFF EE1E5D00 0010D .BLKB 3
00110 P.AAA: .LONG -300000000, -1
.EXTRN SYS$SETIMR

```

		000C 00000		KEEP_ALIVE:			
		52	1F	7D	00002	.WORD	Save R2,R3
		50	00000000G00	42	D0 00005	1\$:	MOVQ #31, I
				3D	13 0000D		MOVL PSM\$GL_SCBVEC[1], SCB
38	10	A0		01	E1 0000F		BEQL 3\$
		53		01	D0 00014		BBC #1, 16(SCB), 3\$
		01	0144	C0	D1 00017		MOVL #1, BUSY_STREAM
				2E	13 0001C		CML 324(SCB), #1
29	11	A0		06	E0 0001E		BEQL 3\$
	01E8	C0	01B8	C0	D1 00023		BBS #6, 17(SCB), 3\$
				19	12 0002A		CML 440(SCB), 488(SCB)
18	54	A0		04	E2 0002C		BNEQ 2\$
			54	A0	9F 00031		BBSS #4, 84(SCB), 3\$
				7E	7C 00034		PUSHAB 84(SCB)
				7E	D4 00036		CLRQ -(SP)
			022C	C0	9F 00038		CLRL -(SP)
	00000000G	00		05	FB 0003C		PUSHAB 556(SCB)
				07	11 00043		CALLS #5, SM\$SEND_TO_JOBCTL
	01B8	C0	01E8	C0	D0 00045	2\$:	BRB 3\$
		B6		52	F4 0004C	3\$:	MOVL 488(SCB), 440(SCB)
		26		53	E9 0004F		SOBGEQ I, 1\$
				7E	D4 00052		BLBC BUSY_STREAM, 5\$
			A9	AF	9F 00054		CLRL -(SP)
			9E	AF	9F 00057		PUSHAB KEEP_ALIVE
				7E	D4 0005A		PUSHAB P.AAA
	00000000G	00		04	FB 0005C		CLRL -(SP)
		52		50	D0 00063		CALLS #4, SYS\$SETIMR
		09		52	E8 00066		MOVL R0, STATUS
				52	DD 00069		BLBS STATUS, 4\$
	00000000G	00		01	FB 0006B		PUSHL STATUS
	0000'	CF		01	B0 00072	4\$:	CALLS #1, LIB\$SIGNAL
				04	00077		MOVW #1, TIMER_ACTIVE
			0000'	CF	B4 00078	5\$:	RET
							CLRW TIMER_ACTIVE


```

282 1225 1 %SBTTL 'NOTIFY_ALL'
283 1226 1 Functional Description:
284 1227 1     ?desc
285 1228 1
286 1229 1 Formal Parameters:
287 1230 1     ?desc
288 1231 1 Implicit Inputs:
289 1232 1     none
290 1233 1
291 1234 1 Implicit Outputs:
292 1235 1     none
293 1236 1
294 1237 1 Returned Value:
295 1238 1     none
296 1239 1
297 1240 1 Side Effects:
298 1241 1     none
299 1242 1 --
300 1243 1 ROUTINE NOTIFY_ALL (
301 1244 1     SCB      : REF $BBLOCK,
302 1245 1     REQUEST
303 1246 1 ) =
304 1247 2 BEGIN
305 1248 2
306 1249 2 ! Generate a table that converts SMBMSG$ request codes to their
307 1250 2 ! corresponding PSM$K_FUNC codes
308 1251 2
309 1252 2 OWN
310 1253 2     REQFUN_TABLE      : VECTOR [8] PSECT (CODE) PRESET (
311 1254 2     [0]                = 0,
312 1255 2     [SMBMSG$K_PAUSE_TASK] = PSM$K_PAUSE_TASK,
313 1256 2     [SMBMSG$K_RESET_STREAM] = PSM$K_STOP_STREAM,
314 1257 2     [SMBMSG$K_RESUME_TASK]  = PSM$K_RESUME_TASK,
315 1258 2     [SMBMSG$K_START_STREAM] = PSM$K_START_STREAM,
316 1259 2     [SMBMSG$K_START_TASK]  = PSM$K_START_TASK,
317 1260 2     [SMBMSG$K_STOP_STREAM]  = PSM$K_STOP_STREAM,
318 1261 2     [SMBMSG$K_STOP_TASK]   = PSM$K_STOP_TASK)
319 1262 2 ;
320 1263 2
321 1264 2 LOCAL SERVICE_STATUS : INITIAL (SS$NORMAL);
322 1265 2
323 1266 2 INCRU I TO PSM$K_MAX - 1
324 1267 2 DO
325 1268 2     BEGIN
326 1269 2     BIND SERVICE = PSM$SRV[I, 0,0,0,0] : $BBLOCK;
327 1270 2
328 1271 2     IF .SERVICE[SRV_A_SERVICE] NEQ 0
329 1272 2     THEN
330 1273 2     SERVICE_STATUS = BLISS (
331 1274 2     .SERVICE[SRV_A_SERVICE],      ! - all services
332 1275 2     SCB,                          ! - SCB address by reference
333 1276 2     SCB[PSM$R_USER_CONTEXT_AREA], ! - user context area
334 1277 2     REQFUN_TABLE[.REQUEST],       ! - request --> function
335 1278 2     0,                            ! - <not used>
336 1279 2     0,                            ! - <not used>
337 1280 2     );
338 1281 2

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: R

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: 339      1282 3      IF NOT .SERVICE_STATUS THEN EXITLOOP;
: 340      1283 3      IF .SERVICE_STATUS EQL PSM$ _PENDING THEN CODEERR_ ;
: 341      1284 3
: 342      1285 2      END;
: 343      1286 2
: 344      1287 2      .SERVICE_STATUS
: 345      1288 2
: 346      1289 1      END;

```

```

00000010 0000000F 0000000E 00000012 0000000C 00000000 00195 .BLKB 3
00198 REQFUN_TABLE:
00000011 00000012 001B0 .LONG 0, 12, 18, 14, 15, 16, 18, 17

```

```

                                000C 00000 NOTIFY_ALL:
                                .WORD Save R2,R3
53                                01 D0 00002 MOVL #1, SERVICE_STATUS : 1243
                                52 D4 00005 CLRL I : 1261
50 52 00000000G0040 04 78 00007 1$: ASHL #4, I, R0 : 1266
                                51 9E D0 00008 PUSHAB PSM$SRV[R0] : 1269
                                9E D0 00012 MOVL @ (SP)+, R1
                                1C 13 00015 BEQL 2$
                                7E 7C 00017 CLRQ -(SP) : 1277
50 08 AC D0 00019 MOVL REQUEST, R0
7E 04 AC 00002D0 BF AF40 DF 0001D PUSHAL REQFUN_TABLE[R0]
                                8F C1 00021 ADDL3 #720, SCB, -(SP) : 1276
                                04 AC 9F 0002A PUSHAB SCB : 1273
61 05 FB 0002D CALLS #5, (R1) : 1277
53 50 D0 00030 MOVL R0, SERVICE_STATUS
00000000G 1F 53 E9 00033 2$: BLBC SERVICE_STATUS, 4$ : 1282
8F 53 D1 00036 CMPL SERVICE_STATUS, #PSM$ _PENDING : 1283
                                0F 12 0003D BNEQ 3$
                                01 DD 0003F PUSHL #1
00000000G 00 01061154 8F DD 00041 PUSHL #17174868
                                02 FB 00047 CALLS #2, LIB$STOP : 1266
52 D6 0004E 3$: INCL I
16 52 D1 00050 CMPL I, #22
                                B2 1B 00053 BLEQU 1$
50 53 D0 00055 4$: MOVL SERVICE_STATUS, R0 : 1289
                                04 00058 RET

```

: Routine Size: 89 bytes, Routine Base: CODE + 01B8

```

: 348 1290 1 %SBTTL 'PAUSE_TASK'
: 349 1291 1 Functional Description:
: 350 1292 1 ?desc
: 351 1293 1
: 352 1294 1 Formal Parameters:
: 353 1295 1 ?desc
: 354 1296 1 Implicit Inputs:
: 355 1297 1 none
: 356 1298 1
: 357 1299 1 Implicit Outputs:
: 358 1300 1 none
: 359 1301 1
: 360 1302 1 Returned Value:
: 361 1303 1 none
: 362 1304 1
: 363 1305 1 Side Effects:
: 364 1306 1 none
: 365 1307 1 --
: 366 1308 1 ROUTINE PAUSE_TASK (
: 367 1309 1 SCB : REF $BBLOCK
: 368 1310 1 ) : NOVALUE =
: 369 1311 2 BEGIN
: 370 1312 2
: 371 1313 2 REQUEST_FLAG_ (PAUSE_COMPLETE) = 1;
: 372 1314 2
: 373 1315 2 SCB[PSM$L_STOP_PAGE] = .SCB[PSM$L_PAGE] + 1;
: 374 1316 2
: 375 1317 2 PSM$FUNCTION_DISPATCH (.SCB);
: 376 1318 2
: 377 1319 1 END;

```

```

                                0000 00000 PAUSE_TASK:
                                .WORD      Save nothing           : 1308
                                MOVL      SCB, R0                  : 1313
                                BISB2    #2, 320(R0)              :
                                ADDL3    #1, 492(R0), 552(R0)     : 1315
                                PUSHL   R0                        : 1317
                                CALLS   #1, PSM$FUNCTION_DISPATCH :
                                RET                                           : 1319
0228 CO 0140 CO 04 AC D0 00002
01EC CO 02 88 00006
0000000G 00 01 C1 0000B
04 0001C 50 DD 00013

```

; Routine Size: 29 bytes, Routine Base: CODE + 0211

```

379 1320 1 XSBTTL 'RESUME_TASK'
380 1321 1 | Functional Description:
381 1322 1 |         ?desc
382 1323 1 |
383 1324 1 | Formal Parameters:
384 1325 1 |         ?desc
385 1326 1 | Implicit Inputs:
386 1327 1 |         none
387 1328 1 |
388 1329 1 | Implicit Outputs:
389 1330 1 |         none
390 1331 1 |
391 1332 1 | Returned Value:
392 1333 1 |         none
393 1334 1 |
394 1335 1 | Side Effects:
395 1336 1 |         none
396 1337 1 | --
397 1338 1 ROUTINE RESUME_TASK (
398 1339 1     SCB      : REF $BBLOCK
399 1340 1     )        : NOVALUE =
400 1341 2 BEGIN
401 1342 2
402 1343 2 LOCAL
403 1344 2     TARGET : SIGNED
404 1345 2     ;
405 1346 2
406 1347 2 ! First compute the start page
407 1348 2 !
408 1349 2 !
409 1350 2 ! Assume the current page
410 1351 2 !
411 1352 2 TARGET = .SCB[PSM$L_PAGE];
412 1353 2
413 1354 2
414 1355 2 ! START /QUEUE /TOP_OF_FORM
415 1356 2
416 1357 2 IF TESTBITSC (REQUEST_FLAG_ (TOP_OF_FILE)) THEN TARGET = 1;
417 1358 2
418 1359 2
419 1360 2 ! START /QUEUE /FORWARD=pages or /BACKWARD=pages
420 1361 2 !
421 1362 2 IF TESTBITSC (ITEM_PRESENT_ (RELATIVE_PAGE))
422 1363 2 THEN
423 1364 2     TARGET = .TARGET + .SCB[PSM$L_RELATIVE_PAGE];
424 1365 2
425 1366 2
426 1367 2 ! Range check -- PRINT /PAGES=(first,last)
427 1368 2 !
428 1369 2 IF .TARGET LSSU 1 THEN TARGET = 1;
429 1370 2 IF .TARGET LSSU .SCB[PSM$L_FIRST_PAGE] THEN TARGET = .SCB[PSM$L_FIRST_PAGE];
430 1371 2 IF .ITEM_PRESENT_ (LAST_PAGE)
431 1372 2 THEN
432 1373 2     IF .TARGET GTRU .SCB[PSM$L_LAST_PAGE] THEN TARGET = .SCB[PSM$L_LAST_PAGE];
433 1374 2
434 1375 2 SCB[PSM$L_START_PAGE] = .TARGET;
435 1376 2

```


MESSAGE
V04-000

Print Symbiont -- message routines
RESUME_TASK

F 10
16-Sep-1984 02:20:24
14-Sep-1984 12:55:09

VAX-11 Bliss-32 V4.0-742
[PRTSMB.SRC]MESSAGE.B32;1

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OUT
V04

: 436
: 437
: 438
1377 2 PSM\$FUNCTION_DISPATCH (.SCB);
1378 2
1379 1 END;

				0000	00000	RESUME_TASK:			
		50	04	AC	D0	00002	.WORD	Save nothing	: 1338
		51	01EC	C0	D0	00006	MOVL	SCB, R0	: 1352
03	0140	C0		03	E5	0000B	MOVL	492(R0), TARGET	
		51		01	D0	00011	BBCC	#3, 320(R0), 1\$: 1357
05	01B0	C0		2E	E5	00014	MOVL	#1, TARGET	
		51	013C	C0	C0	0001A	BBCC	#46, 432(R0), 2\$: 1362
				03	12	0001F	ADDL2	316(R0), TARGET	: 1364
		51		01	D0	00021	BNEQ	3\$: 1369
	74	A0		51	D1	00024	MOVL	#1, TARGET	
				04	1E	00028	CMPL	TARGET, 116(R0)	: 1370
		51	74	A0	D0	0002A	BGEQU	4\$	
0C	01B3	C0		03	E1	0002E	MOVL	116(R0), TARGET	
	00B8	C0		51	D1	00034	BBC	#3, 435(R0), 5\$: 1371
				05	1B	00039	CMPL	TARGET, 184(R0)	: 1373
		51	00B8	C0	D0	0003B	BLEQU	5\$	
	0224	C0		51	D0	00040	MOVL	184(R0), TARGET	
				50	DD	00045	MOVL	TARGET, 548(R0)	: 1375
	00000000G	00		01	FB	00047	PUSHL	R0	: 1377
				04	0004E		CALLS	#1, PSM\$FUNCTION_DISPATCH	: 1379
							RET		

: Routine Size: 79 bytes. Routine Base: CODE + 022E

```

: 440 1380 1 %SBTTL 'START_STREAM'
: 441 1381 1 | Functional Description:
: 442 1382 1 |     ?desc
: 443 1383 1 |
: 444 1384 1 | Formal Parameters:
: 445 1385 1 |     ?desc
: 446 1386 1 | Implicit Inputs:
: 447 1387 1 |     none
: 448 1388 1 |
: 449 1389 1 | Implicit Outputs:
: 450 1390 1 |     none
: 451 1391 1 |
: 452 1392 1 | Returned Value:
: 453 1393 1 |     none
: 454 1394 1 |
: 455 1395 1 | Side Effects:
: 456 1396 1 |     none
: 457 1397 1 | --
: 458 1398 1 ROUTINE START_STREAM (
: 459 1399 1     SCB      : REF $BBLOCK
: 460 1400 1     )      : NOVALUE =
: 461 1401 2 BEGIN
: 462 1402 2
: 463 1403 2 BIND OUTPUT = PSM$SRV [PSM$K_OUTPUT,0,0,0,0] : $BBLOCK;
: 464 1404 2
: 465 1405 2 LOCAL
: 466 1406 2     STATUS_1
: 467 1407 2     ;
: 468 1408 2
: 469 1409 2 SCB[PSM$V_ACTIVE] = 1;           ! Mark queue started
: 470 1410 2
: 471 1411 2 STATUS_1 = BLISS (
: 472 1412 2     .OUTPUT[SRV_A_SERVICE],         ! - output service
: 473 1413 2     SCB,                          ! - SCB address by reference
: 474 1414 2     SCB[PSM$R_USER_CONTEXT_AREA], ! - user context area
: 475 1415 2     UPLIT (PSM$K_OPEN),          ! - OPEN function
: 476 1416 2     SCB[PSM$Q_DEVICE_NAME],       ! - Device name
: 477 1417 2     SCB[PSM$L_DEVICE_STATUS],     ! - Device status
: 478 1418 2     );
: 479 1419 2
: 480 1420 2 IF NOT .STATUS_1 THEN PSM$STORE_ERRORS (SCB, .STATUS_1);
: 481 1421 2
: 482 1422 2 SMB$SEND TO JOBCTL (
: 483 1423 2     SCB[PSM$L_STREAM_INDEX],         ! - stream number
: 484 1424 2     SCB[PSM$L_REQUEST_RESPONSE],   ! - responding to ...
: 485 1425 2     0,                          ! - no accounting
: 486 1426 2     0,                          ! - no checkpoint
: 487 1427 2     SCB[PSM$L_DEVICE_STATUS],     ! - device status
: 488 1428 2     SCB[PSM$T_CONDITION_AREA],    ! - errors, if any
: 489 1429 2     );
: 490 1430 2
: 491 1431 1 END;

```

				0000 00000	START_STREAM:			
		50	04	AC	D0 00002	.WORD	Save nothing	: 1398
	0C	A0		01	88 00006	MOVL	SCB, R0	: 1409
		51	00000000G	00	D0 0000A	BISB2	#1, 12(R0)	
			54	A0	9F 00011	MOVL	OUTPUT, R1	: 1412
			4C	A0	9F 00014	PUSHAB	84(R0)	: 1417
			E2	AF	9F 00017	PUSHAB	76(R0)	: 1416
			02D0	CO	9F 0001A	PUSHAB	P.AAB	: 1415
			04	AC	9F 0001E	PUSHAB	720(R0)	: 1414
		61		05	FB 00021	PUSHAB	SCB	: 1411
		0C		50	E8 00024	CALLS	#5, (R1)	: 1417
				50	DD 00027	BLBS	STATUS_1, 1\$: 1420
			04	AC	9F 00029	PUSHL	STATUS_1	
			00	02	FB 0002C	PUSHAB	SCB	
7E		04	AC 0000028E	8F	C1 00033	CALLS	#2, PSM\$STORE_ERRORS	: 1428
7E		04	AC 00000054	8F	C1 0003C	ADDL3	#654, SCB, -(SP)	: 1427
				7E	7C 00045	ADDL3	#84, SCB, -(SP)	: 1428
				8F	C1 00047	CLRQ	-(SP)	: 1428
7E		04	AC 00000144	8F	C1 00047	ADDL3	#324, SCB, -(SP)	: 1424
7E		04	AC 0000022C	8F	C1 00050	ADDL3	#556, SCB, -(SP)	: 1423
			00	06	FB 00059	CALLS	#6, SMB\$SEND_TO_JOBCTL	: 1428
				04	00060	RET		: 1431

: Routine Size: 97 bytes, Routine Base: CODE + 0284

```

493 1432 1 %SBTTL 'START_TASK'
494 1433 1 : Functional Description:
495 1434 1 : ?desc
496 1435 1 :
497 1436 1 : Formal Parameters:
498 1437 1 : ?desc
499 1438 1 : Implicit Inputs:
500 1439 1 : none
501 1440 1 :
502 1441 1 : Implicit Outputs:
503 1442 1 : none
504 1443 1 :
505 1444 1 : Returned Value:
506 1445 1 : none
507 1446 1 :
508 1447 1 : Side Effects:
509 1448 1 : none
510 1449 1 --
511 1450 1 ROUTINE START_TASK (
512 1451 1 SCB : REF $BBLOCK
513 1452 1 ) : NOVALUE =
514 1453 2 BEGIN
515 1454 2
516 1455 2 BIND
517 1456 2 PFLAGS = SCB[PSM$L PRINT CONTROL] : $BBLOCK,
518 1457 2 SERVICE = PSM$SRV[PSM$K_MAIN_INPUT, 0,0,0,0] : $BBLOCK
519 1458 2 ;
520 1459 2
521 1460 2 SCB[PSM$V_BUSY] = 1;
522 1461 2
523 1462 2 IF NOT .TIMER_ACTIVE
524 1463 2 THEN
525 1464 2 KEEP_ALIVE ();
526 1465 2
527 1466 2
528 1467 2 : Advance the job sequence character if a new or restarted job
529 1468 2 :
530 1469 2 IF (.SCB[PSM$L_ENTRY_NUMBER] NEQU .SCB[PSM$L_LAST_ENTRY_NUMBER])
531 1470 2 OR .REQUEST_FLAG_ (RESTARTING)
532 1471 2 THEN
533 1472 3 BEGIN
534 1473 3 SCB[PSM$L_LAST_ENTRY_NUMBER] = .SCB[PSM$L_ENTRY_NUMBER];
535 1474 3 INCREMENT_ (SCB[PSM$B_JOB_BURST_CHAR]);
536 1475 3 IF .SCB[PSM$B_JOB_BURST_CHAR] GTRU %C '9'
537 1476 3 THEN
538 1477 3 SCB[PSM$B_JOB_BURST_CHAR] = %C '0';
539 1478 2 END;
540 1479 2
541 1480 2
542 1481 2 : Always advance the file sequence character
543 1482 2 :
544 1483 2 INCREMENT_ (SCB[PSM$B_FILE_BURST_CHAR]);
545 1484 2 IF .SCB[PSM$B_FILE_BURST_CHAR] GTRU %C 'Z'
546 1485 2 THEN
547 1486 2 SCB[PSM$B_FILE_BURST_CHAR] = %C 'A';
548 1487 2
549 1488 2

```

```

1489 2 IF (.SCB[PSMSL_FORM_LENGTH] - .SCB[PSMSL_TOP_MARGIN]) -
1490 2 .SCB[PSMSL_BOTTOM_MARGIN] LSSU 3
1491 2 THEN
1492 2 PFLAGS[SMBMSG$V_PAGE_HEADER] = 0;
1493 2
1494 2 SIGNAL_IF_ERROR_ ($GETTIM (TIMADR = SCB[PSMSQ_TIME_PRINTED]));
1495 2
1496 2 IF 1 THEN SERVICE_LIST_ (JOB_SETUP) = 1;
1497 2 IF 1 THEN SERVICE_LIST_ (FORM_SETUP) = 1;
1498 2 IF .SEPARATE_FLAG_ (JOB_FLAG) THEN SERVICE_LIST_ (JOB_FLAG) = 1;
1499 2 IF .SEPARATE_FLAG_ (JOB_BURST) THEN SERVICE_LIST_ (JOB_BURST) = 1;
1500 2 IF 1 THEN SERVICE_LIST_ (FILE_SETUP) = 1;
1501 2 IF .SEPARATE_FLAG_ (FILE_FLAG) THEN SERVICE_LIST_ (FILE_FLAG) = 1;
1502 2 IF .SEPARATE_FLAG_ (FILE_BURST) THEN SERVICE_LIST_ (FILE_BURST) = 1;
1503 2 IF 1 THEN SERVICE_LIST_ (FILE_SETUP_2) = 1;
1504 2 IF .ITEM_PRESENT_ (FILE_IDENTIFICATION) THEN SERVICE_LIST_ (MAIN_INPUT)= 1
1505 2 ELSE PMS$STORE ERRORS (.SCB, PMS$NOFILEID);
1506 2 IF .ITEM_PRESENT_ (MESSAGE_VECTOR) THEN SERVICE_LIST_ (FILE_INFORMATION) = 1;
1507 2 IF .SEPARATE_FLAG_ (FILE_TRAILER) THEN SERVICE_LIST_ (FILE_TRAILER) = 1;
1508 2 IF .SEPARATE_FLAG_ (JOB_RESET) THEN SERVICE_LIST_ (JOB_RESET) = 1;
1509 2 IF .SEPARATE_FLAG_ (JOB_TRAILER) THEN SERVICE_LIST_ (JOB_TRAILER) = 1;
1510 2 IF 1 THEN SERVICE_LIST_ (JOB_COMPLETION) = 1;
1511 2
1512 2 SCB[PSMSB_STATE] = 0;
1513 2
1514 2 PMS$FUNCTION_DISPATCH (.SCB)
1515 2
1516 1 END;

```

.EXTRN SYSS\$GETTIM

		001C 00000 START_TASK:				
				.WORD	Save R2,R3,R4	: 1450
				MOVL	SCB, R2	: 1456
	10	A2	04	BISB2	#2, 16(R2)	: 1460
		05	0000'	BLBS	TIMER ACTIVE, 1\$: 1462
	FE1F	CF		CALLS	#0, KEEP_ALIVE	: 1464
	01C0	C2	58	CMPL	88(R2), 448(R2)	: 1469
				BNEQ	2\$	
	15	0140	C2	BBC	#2, 320(R2), 3\$: 1470
		01C0	C2	MOVL	88(R2), 448(R2)	: 1473
			50	MOVAB	678(R2), R0	: 1474
			60	INCB	(R0)	
			39	CMPB	(R0), #57	: 1475
			03	BLEQU	3\$	
		60	30	MOVB	#48, (R0)	: 1477
		50	02A4	MOVAB	676(R2), R0	: 1483
			60	INCB	(R0)	
	5A	8F		CMPB	(R0), #90	: 1484
			04	BLEQU	4\$	
		60	41	MOVB	#65, (R0)	: 1486
	50	78	0164	SUBL3	356(R2), 120(R2), R0	: 1489
			50	SUBL2	48(R2), R0	: 1490
			03	CMPL	R0, #3	
			05	BGEQU	5\$	

0124	C2		02	8A	00058		BICB2	#2, 292(R2)	:	1492
		0234	C2	9F	0005D	5\$:	PUSHAB	564(R2)	:	1494
00000000G	00		01	FB	00061		CALLS	#1, SYS\$GETTIM	:	
	53		50	DO	00068		MOVL	R0, STATUS	:	
	09		53	E8	0006B		BLBS	STATUS, 6\$:	
			53	DD	0006E		PUSHL	STATUS	:	
00000000G	00		01	FB	00070		CALLS	#1, LIB\$SIGNAL	:	
	53	0218	C2	9E	00077	6\$:	MOVAB	536(R2), R3	:	1496
01	A3		03	88	0007C		BISB2	#3, 1(R3)	:	1497
	54	0154	C2	9E	00080		MOVAB	340(R2), R4	:	1498
04	64		04	E1	00085		BBC	#4, (R4), 7\$:	
	01		04	88	00089		BISB2	#4, 1(R3)	:	
04	64		05	E1	0008D	7\$:	BBC	#5, (R4), 8\$:	1499
	01		08	88	00091		BISB2	#8, 1(R3)	:	
	01		10	88	00095	8\$:	BISB2	#16, 1(R3)	:	1500
04	64		01	E1	00099		BBC	#1, (R4), 9\$:	1501
	01		20	88	0009D		BISB2	#32, 1(R3)	:	
	05		64	E9	000A1	9\$:	BLBC	(R4), 10\$:	1502
	01	40	8F	88	000A4		BISB2	#64, 1(R3)	:	
	01	80	8F	88	000A9	10\$:	BISB2	#128, 1(R3)	:	1503
06	01B2		05	E1	000AE		BBC	#5, 434(R2), 11\$:	1504
	02		01	88	000B4		BISB2	#1, 2(R3)	:	
			0F	11	000B8		BRB	12\$:	
		00000000G	8F	DD	000BA	11\$:	PUSHL	#PSM\$_NOFILEID	:	1505
			52	DD	000C0		PUSHL	R2	:	
00000000G	00		02	FB	000C2		CALLS	#2, PSM\$STORE_ERRORS	:	
		01B3	C2	95	000C9	12\$:	TSTB	435(R2)	:	1506
			04	18	000CD		BGEQ	13\$:	
	02		02	88	000CF		BISB2	#2, 2(R3)	:	
04	64		02	E1	000D3	13\$:	BBC	#7, (R4), 14\$:	1507
	02		08	88	000D7		BISB2	#8, 2(R3)	:	
04	64		06	E1	000DB	14\$:	BBC	#6, (R4), 15\$:	1508
	02		10	88	000DF		BISB2	#16, 2(R3)	:	
	04	01	A4	E9	000E3	15\$:	BLBC	1(R4), 16\$:	1509
	02		20	88	000E7		BISB2	#32, 2(R3)	:	
	02	40	8F	88	000EB	16\$:	BISB2	#64, 2(R3)	:	1510
		02A7	C2	94	000F0		CLRB	679(R2)	:	1512
			52	DD	000F4		PUSHL	R2	:	1514
00000000G	00		01	FB	00CF6		CALLS	#1, PSM\$FUNCTION_DISPATCH	:	
			04	000FD			RET		:	1516

; Routine Size: 254 bytes, Routine Base: CODE + 02E5

```

579 1517 1 %SBTTL 'STOP_STREAM'
580 1518 1 Functional-Description:
581 1519 1 ?desc
582 1520 1
583 1521 1 Formal Parameters:
584 1522 1 ?desc
585 1523 1 Implicit Inputs:
586 1524 1 none
587 1525 1
588 1526 1 implicit Outputs:
589 1527 1 none
590 1528 1
591 1529 1 Returned Value:
592 1530 1 none
593 1531 1
594 1532 1 Side Effects:
595 1533 1 none
596 1534 1 --
597 1535 1 ROUTINE STOP_STREAM (
598 1536 1 SCB : REF $BBLOCK
599 1537 1 ) : NOVALUE =
600 1538 2 BEGIN
601 1539 2
602 1540 2 BIND OUTPUT = PSM$SRV [PSM$K_OUTPUT,0,0,0,0] : $BBLOCK;
603 1541 2
604 1542 2 LOCAL
605 1543 2 STATUS_1
606 1544 2 STATUS_2
607 1545 2 ;
608 1546 2
609 1547 2
610 1548 2 PSM$STORE_ERRORS (SCB, .SCB[PSM$L_STOP_CONDITION]);
611 1549 2 SCB[PSM$V_RESET] = 1;
612 1550 2 SCB[PSM$V_EOF] = 1;
613 1551 2
614 1552 2 STATUS_1 = BLISS (
615 1553 2 .OUTPUT[SRV_A_SERVICE], | - output service
616 1554 2 SCB, | - SCB address by reference
617 1555 2 SCB[PSM$R_USER_CONTEXT_AREA], | - user context area
618 1556 2 UPLIT (PSM$K_CANCEL), | - CANCEL function
619 1557 2 0, | - <not used>
620 1558 2 0, | - <not used>
621 1559 2 );
622 1560 2
623 1561 2 IF NOT .STATUS_1 THEN PSM$STORE_ERRORS (SCB, .STATUS_1);
624 1562 2
625 1563 2 STATUS_2 = BLISS (
626 1564 2 .OUTPUT[SRV_A_SERVICE], | - output service
627 1565 2 SCB, | - SCB address by reference
628 1566 2 SCB[PSM$R_USER_CONTEXT_AREA], | - user context area
629 1567 2 UPLIT (PSM$K_CLOSE), | - CLOSE function
630 1568 2 0, | - <not used>
631 1569 2 0, | - <not used>
632 1570 2 );
633 1571 2
634 1572 2 IF NOT .STATUS_2 THEN PSM$STORE_ERRORS (SCB, .STATUS_2);
635 1573 2

```

MESSAGE
V04-000

Print Symbiont -- message routines
STOP_STREAM

M 10
16-Sep-1984 02:20:24
14-Sep-1984 12:55:09

VAX-11 Bliss-32 V4.0-742
[PRTSMB.SRC]MESSAGE.B32;1

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OU
VO

```

: 636 1574 2 SCB[PSMSV_ACTIVE] = 0;
: 637 1575 2
: 638 1576 2 PSM$FUNCTION_DISPATCH (.SCB);
: 639 1577 2
: 640 1578 1 END;

```

. Mark queue stopped

```

00000001 003E3 .BLKB 1
00000002 003E4 P.AAC: .LONG 1
00000002 003E8 P.AAD: .LONG 2

```

```

000C 00000 STOP_STREAM:
53 00000000G 00 9E 00002 .WORD Save R2,R3 1535
52 00000000G 00 9E 00009 MOVAB OUTPUT, R3
50 04 AC DO 00010 MOVAB PSM$STORE_ERRORS, R2 1548
0158 C0 DD 00014 MOVL SCB, R0
04 AC 9F 00018 PUSHL 344(R0)
62 02 FB 0001B PUSHAB SCB
50 04 AC DO 0001E CALLS #2, PSM$STORE_ERRORS 1549
10 A0 0404 8F AB 00022 MOVL SCB, R0
51 63 DO 00028 BISW2 #1028, 16(R0)
7E 7C 0002B MOVL OUTPUT, R1 1553
C8 AF 9F 0002D CLRQ -(SP) 1555
02D0 C0 9F 00030 PUSHAB P.AAC 1556
04 AC 9F 00034 PUSHAB 720(R0) 1555
61 05 FB 00037 PUSHAB SCB 1552
08 50 E8 0003A CALLS #5, (R1) 1555
50 DD 0003D BLBS STATUS_1, 1$ 1561
04 AC 9F 0003F PUSHL STATUS_1
62 02 FB 00042 PUSHAB SCB
50 63 DO 00045 1$: CALLS #2, PSM$STORE_ERRORS
7E 7C 00048 MOVL OUTPUT, R0 1564
AF AF 9F 0004A CLRQ -(SP) 1566
7E 04 AC 000002D0 8F C1 0004D PUSHAB P.AAD 1567
04 AC 9F 00056 ADDL3 #720, SCB, -(SP) 1566
60 05 FB 00059 PUSHAB SCB 1563
08 50 E8 0005C CALLS #5, (R0) 1566
50 DD 0005F BLBS STATUS_2, 2$ 1572
04 AC 9F 00061 PUSHL STATUS_2
62 02 FB 00064 PUSHAB SCB
50 04 AC DO 00067 2$: CALLS #2, PSM$STORE_ERRORS
0C A0 01 8A 0006B MOVL SCB, R0 1574
50 DD 0006F BICB2 #1, 12(R0)
00000000G 00 01 FB 00071 PUSHL R0 1576
04 00078 CALLS #1, PSM$FUNCTION_DISPATCH
RET 1578

```

: Routine Size: 121 bytes, Routine Base: CODE + 03EC


```

: 642 1579 1 %SBTTL 'STOP_TASK'
: 643 1580 1 Functional-Description:
: 644 1581 1 ?desc
: 645 1582 1
: 646 1583 1 Formal Parameters:
: 647 1584 1 ?desc
: 648 1585 1 Implicit Inputs:
: 649 1586 1 none
: 650 1587 1
: 651 1588 1 Implicit Outputs:
: 652 1589 1 none
: 653 1590 1
: 654 1591 1 Returned Value:
: 655 1592 1 none
: 656 1593 1
: 657 1594 1 Side Effects:
: 658 1595 1 none
: 659 1596 1 --
: 660 1597 1 ROUTINE STOP_TASK (
: 661 1598 1 SCB : REF $BBLOCK
: 662 1599 1 ) : NOVALUE =
: 663 1600 2 BEGIN
: 664 1601 2
: 665 1602 2 BIND OUTPUT = PSM$SRV [PSM$K_OUTPUT,0,0,0,0] : $BBLOCK;
: 666 1603 2
: 667 1604 2 LOCAL
: 668 1605 2 STATUS_1
: 669 1606 2 ;
: 670 1607 2
: 671 1608 2 PSM$STORE_ERRORS (.SCB, .SCB[PSM$L_STOP_CONDITION]);
: 672 1609 2
: 673 1610 2 STATUS_1 = BLISS (
: 674 1611 2 .OUTPUT[SRV_A_SERVICE], | - output service
: 675 1612 2 SCB, | - SCB address by reference
: 676 1613 2 SCB[PSM$R_USER_CONTEXT_AREA], | - user context area
: 677 1614 2 UPLIT (PSM$K_CANCEL), | - CANCEL function
: 678 1615 2 0, | - <not used>
: 679 1616 2 0, | - <not used>
: 680 1617 2 );
: 681 1618 2
: 682 1619 2 IF NOT .STATUS_1 THEN PSM$STORE_ERRORS (SCB, .STATUS_1);
: 683 1620 2
: 684 1621 2 PSM$FUNCTION_DISPATCH (.SCB);
: 685 1622 2
: 686 1623 1 END;

```

```

00000001 00465 .BLKB 3
00000001 00468 P.AAE: .LONG 1

```

```

000C 0000 STOP_TASK:
53 00000000G 00 9E 00002 .WORD Save R2,R3
52 04 AC D0 00009 MOVAB PSM$STORE_ERRORS, R3
MOVL SCB, R2

```

```

: 1597
: 1608

```


MESSAGE
V04-000

Print Symbiont -- message routines
STOP_TASK

C 11
16-Sep-1984 02:20:24
14-Sep-1984 12:55:09

VAX-11 Bliss-32 V4.0-742
[PRTSMB.SRC]MESSAGE.B32;1

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(12)

OUTP
V04-

: 688 1624 1 END
: 689 1625 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
DATA	2	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
CODE	1198	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	74 0	1000	00:01.8

COMMAND QUALIFIERS

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

: Size: 1097 code + 103 data bytes
: Run Time: 00:27.3
: Elapsed Time: 01:07.6
: Lines/CPU Min: 3572
: Lexemes/CPU-Min: 29080
: Memory Used: 225 pages
: Compilation Complete

