

[illegible]

```

LL          IIIIII      SSSSSSSS
LL          IIIIII      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
LLLLLLLLLLL IIIIIII    SSSSSSSS
LLLLLLLLLLL IIIIIII    SSSSSSSS

```



```
1 0001 0 MODULE COMMON (
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000',
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 2
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This module is the common impure area of FCP, including the
38 0038 1 routine that initializes it for each request.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 20-Dec-1976 23:42
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-017 ACG0415 Andrew C. Goldstein, 9-Apr-1984 11:35
53 0053 1 Add patch area to code sections
54 0054 1
55 0055 1 V03-016 ACG0408 Andrew C. Goldstein, 20-Mar-1984 16:08
56 0056 1 Redesign global storage generation. This module now just
57 0057 1 invokes a macro to generate the global storage definitions.
```

58	0058	1	The actual definitions of storage cells are in FCPDEF.
59	0059	1	
60	0060	1	V03-015 CDS0013 Christian D. Saether 13-Feb-1984
61	0061	1	Remove old RDBLOK cells. Add ACB ADDR.
62	0062	1	Add BFR_LIST, BFR_CREDITS, and BFRS_USED vectors.
63	0063	1	Replace NO_LCKCHK with CACHELOCK.
64	0064	1	
65	0065	1	V03-014 CDS0012 Christian D. Saether 27-Dec-1983
66	0066	1	Rearrange layout of variables to simplify construction
67	0067	1	of equivalent BIND statements.
68	0068	1	
69	0069	1	V03-013 CDS0011 Christian D. Saether 12-Dec-1983
70	0070	1	Move OWN and GLOBAL declarations from other modules
71	0071	1	to this one to reduce number of image sections.
72	0072	1	Move code from this module to INIFCP.
73	0073	1	
74	0074	1	V03-012 CDS0010 Christian D. Saether 10-Oct-1983
75	0075	1	Add cell to hold lockid of lock volume lock.
76	0076	1	Add flag to determine whether blocking checks are made.
77	0077	1	Redefine NO_LCKCHK as a byte.
78	0078	1	
79	0079	1	V03-011 CDS0009 Christian D. Saether 3-Oct-1983
80	0080	1	Add CURR_LCKINDX.
81	0081	1	
82	0082	1	V03-010 CDS0008 Christian D. Saether 14-Sep-1983
83	0083	1	Rework handling of serialization locks and
84	0084	1	associated data.
85	0085	1	Move MATCHING_ACE, FILE_SPEC_LEN, and FULL_FILE_SPEC
86	0086	1	again to get better locality between primary and
87	0087	1	secondary context areas.
88	0088	1	Add volume context flag save word.
89	0089	1	
90	0090	1	V03-009 CDS0007 Christian D. Saether 27-Aug-1983
91	0091	1	Remove PREV_CHANNEL, DISK_UCB, DISK_UCB2, PREV_UCB.
92	0092	1	Add IO_CCB, ORIG_IOCHN_UCB.
93	0093	1	Move MATCHING_ACE, FILE_SPEC_LEN, and FULL_FILE_SPEC
94	0094	1	out of initialized context area to avoid initializing
95	0095	1	these large areas on every request. They are
96	0096	1	explicitly initialized in the routines that use them.
97	0097	1	
98	0098	1	V03-008 CDS0006 Christian D. Saether 27-Jul-1983
99	0099	1	Remove obsolete jbc cells.
100	0100	1	
101	0101	1	V03-007 LMP0121 L. Mark Pilant 17-Jun-1983 9:14
102	0102	1	Up the storage for the full file specification.
103	0103	1	
104	0104	1	V03-006 LMP0110 L. Mark Pilant 3-May-1983 12:10
105	0105	1	Add storage for the access mask, privs used, and matching
106	0106	1	ACE.
107	0107	1	
108	0108	1	V03-005 CDS0005 Christian D. Saether 3-May-1983
109	0109	1	Add lock status block for fid serialization lock.
110	0110	1	Add lock status block for directory file serial lock.
111	0111	1	Add lock status block for volume serialization.
112	0112	1	
113	0113	1	V03-004 CDS0004 Christian D. Saether 22-Apr-1983
114	0114	1	Lock status block needs to be in context save area.

COMMON
V04-000

M 14
16-Sep-1984 00:05:05
14-Sep-1984 12:30:12

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DISK\$VMSMASTER:[F11X.SRC]COMMON.B32;1 Page 3
(1)

```

: 115      0115 1
: 116      0116 1
: 117      0117 1
: 118      0118 1
: 119      0119 1
: 120      0120 1
: 121      0121 1
: 122      0122 1
: 123      0123 1
: 124      0124 1
: 125      0125 1
: 126      0126 1
: 127      0127 1
: 128      0128 1
: 129      0129 1
: 130      0130 1
: 131      0131 1
: 132      0132 1
: 133      0133 1
: 134      0134 1
: 135      0135 1
: 136      0136 1
: 137      0137 1
: 138      0138 1
: 139      0139 1
: 140      0140 1

V03-003 CDS0003      Christian D. Saether      6-Apr-1983
        Define lock status block for access locks.

V03-002 CDS0002      C Saether      26-Oct-1982
        Remove AQB_PTR. Only used in mount and dismount.

V03-001 CDS0001      C Saether      30-Jul-1982
        Add new cells for XQP support.

V02-010 ACG0245      Andrew C. Goldstein,      23-Dec-1981 20:36
        Add job controller mailbox channel

V02-009 ACG0208      Andrew C. Goldstein,      30-Oct-1981 19:28
        Add segmented directory record support

V02-008 ACG38100      Andrew C. Goldstein,      3-Jun-1981 11:57
        Fix granting of SYSPRV to volume owner

V02-007 ACG0167      Andrew C. Goldstein,      16-Apr-1980 19:25
        Previous revision history moved to F11B.REV

**

LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'SRC$:FCPDEF.B32';
```

```

142 1131 1
143 1132 1
144 1133 1 ACP global impure data area
145 1134 1
146 1135 1
147 1136 1
148 1137 1 GLOBAL_COMMON;
149 1138 1
150 1139 1 UNDECLARE
151 1140 1 CONTEXT_SIZE;
152 1141 1
153 1142 1 GLOBAL LITERAL
154 1143 1 CONTEXT_SIZE = CONTEXT_END - CONTEXT_START, ! byte count of context area
155 1144 1 IMPURE_SIZE = IMPURE_END - IMPURE_START, ! byte count of impure area
156 1145 1 STORAGE_SIZE = STORAGE_END - STORAGE_START, ! total impure area size
157 1146 1 STORAGE_OFFSET = - STORAGE_START; ! offset of base register
158 1147 1
159 1148 1 ! Check the length of the context save area.
160 1149 1
161 1150 1 $ASSUME (CONTEXT_SAVE_END, EQL, CONTEXT_SAVE + CONTEXT_SIZE);
162 1151 1
163 1152 1
164 1153 1 ! Allocate space for paged and non-paged patch areas.
165 1154 1
166 1155 1 PSECT OWN = $CODE9$ (NOWRITE, EXECUTE, ALIGN (9));
167 1156 1 OWN PAGED_END : VECTOR [0];
168 1157 1 PSECT GLOBAL = $CODE8$ (NOWRITE, EXECUTE, ALIGN (2));
169 1158 1 GLOBAL PAGED_PATCH : VECTOR [128]
170 1159 1 INITIAL (PAGED_END - PAGED_PATCH - 8, PAGED_PATCH + 8);
171 1160 1
172 1161 1 PSECT OWN = $LOCKEDC9$ (NOWRITE, EXECUTE, ALIGN (9));
173 1162 1 OWN NONPAGED_END : VECTOR [0];
174 1163 1 PSECT GLOBAL = $LOCKEDC8$ (NOWRITE, EXECUTE, ALIGN (2));
175 1164 1 GLOBAL NONPAGED_PATCH : VECTOR [64]
176 1165 1 INITIAL (NONPAGED_END - NONPAGED_PATCH - 8, NONPAGED_PATCH + 8);
177 1166 1
178 1167 1 END
179 1168 0 ELUDOM

```

```

        .TITLE  COMMON
        .IDENT  \V04-000\

        .PSECT  $LOCKEDC8$,NOWRT,2

00000000* 00000 NONPAGED_PATCH::
        .LONG   <<NONPAGED_END-NONPAGED_PATCH>-8>
00000000' 00004   .ADDRESS NONPAGED_PATCH+8
        00008   .BLKB      248

        .PSECT  $LOCKEDC9$,NOWRT,9

00000 NONPAGED_END:
        .BLKB   0

        .PSECT  $CODE8$,NOWRT,2

```



```
00000000* 00000 PAGED_PATCH::
                                .LONG    <<PAGED_END-PAGED_PATCH>-8>
00000000' 00004   .ADDRESS PAGED_PATCH+8
00008     .BLKB    504
                                .PSECT   $CODE9$,NOWRT,9
```

```
00000 PAGED_END:
      .BLKB    0
```

```
STORAGE_START== -2752
L_DATA_START== -2752
XQP_STACK== -2752
XQP_QUEUE== -192
XQP_DISPATCHER== -184
CODE_SIZE== -180
CODE_ADDRESS== -176
DATA_SIZE== -172
DATA_ADDRESS== -168
PREV_FP== -164
PREV_STKLIM== -160
XQP_STKLIM== -152
XQP_SAVFP== -144
IO_CCB== -140
IO_CHANNEL== -136
BLOCK_LOCKID== -132
IMPURE_START== -128
USER_STATUS== -128
IO_STATUS== -120
IO_PACKET== -112
CURRENT_UCB== -108
CURRENT_VCB== -104
CURRENT_RVT== -100
CURRENT_RVN== -96
SAVE_VC_FLAGS== -92
STSF[GS]== -90
BLOCK_CHECK== -89
NEW_FID== -88
NEW_FID_RVN== -84
HEADER_CBN== -80
BITMAP_VBN== -76
BITMAP_RVN== -72
BITMAP_BUFFER== -68
SAVE_STATUS== -64
PRIVS_USED== -60
ACB_ADDR== -56
BFR_LIST== -52
BFR_CREDITS== -20
BFRS_USED== -12
CACHE_HDR== -4
CONTEXT_START== 0
CLEANUP_FLAGS== 0
FILE_HEADER== 4
PRIMARY_FCB== 8
CURRENT_WINDOW== 12
CURRENT_FIB== 16
CURR_LCKINDX== 20
```


C 15
16-Sep-1984 00:05:05
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DISK\$VMSMASTER:[F11X.SRC]COMMON.B32;1 Page 6
(2)

PRIM_LCKINDX==	24
LOC_RVN==	28
LOC_LBN==	32
UNREC_LBN==	36
UNREC_COUNT==	40
UNREC_RVN==	44
PREV_LINK==	48
CONTEXT_END==	54
CONTEXT_SAVE==	54
CONTEXT_SAVE_END==	108
LB_LOCKID==	108
LB_BASIS==	128
LB_HDRSEQ==	148
LB_DATASEQ==	168
LB_FILESIZE==	188
DIR_FCB==	208
DIR_LCKINDX==	212
DIR_RECORD==	216
DIR_CONTEXT==	220
OLD_VERSION_FID==	332
PREV_VERSION==	338
PREV_NAME==	342
PADDING_0==	423
PREV_INAME==	424
SUPER_FID==	510
LOCAL_FIB==	516
SECOND_FIB==	580
LOCAL_ARB==	644
L_DATA_END==	692
QUOTA_RECORD==	692
FREE_QUOTA==	696
REAL_Q_REC==	700
QUOTA_INDEX==	704
DUMMY_REC==	708
AUDIT_COUNT==	740
IMPURE_END==	744
MATCHING_ACE==	744
FILE_SPEC_LEN==	1256
FULL_FILE_SPEC==	1258
PMS_TOT_READ==	2280
PMS_TOT_WRITE==	2284
PMS_TOT_CACHE==	2288
PMS_FNC_READ==	2292
PMS_FNC_WRITE==	2296
PMS_FNC_CACHE==	2300
PMS_FNC_CPU==	2304
PMS_FNC_PFA==	2308
PMS_SUB_NEST==	2312
PMS_SUB_FUNC==	2316
PMS_SUB_READ==	2320
PMS_SUB_WRITE==	2324
PMS_SUB_CACHE==	2328
PMS_SUB_CPU==	2332
PMS_SUB_PFA==	2336
AUDIT_ARGLIST==	2340
STORAGE_END==	2404
CONTEXT_SIZE==	54

COMMON
V04-000

D 15
16-Sep-1984 00:05:05
14-Sep-1984 12:30:12

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DISK\$VMSMASTER:[F11X.SRC]COMMON.B32;1 Page 7
(2)

IMPURE_SIZE== 872
STORAGE_SIZE== 5156
STORAGE_OFFSET== 2752

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE9\$	0	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(9)
\$CODE8\$	512	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$LOCKEDC9\$	0	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(9)
\$LOCKEDC8\$	256	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
. ABS .	0	NOVEC,NOWRT,NORD ,NOEXE,NOSHR, LCL, ABS, CON,NOPIC,ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	18	0	1000	00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS\$;COMMON/OBJ=OBJ\$;COMMON MSRC\$;COMMON/UPDATE=(ENHS\$;COMMON)

; Size: 0 code + 768 data bytes
; Run Time: 00:13.6
; Elapsed Time: 00:29.7
; Lines/CPU Min: 5156
; Lexemes/CPU-Min: 57920
; Memory Used: 110 pages
; Compilation Complete

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