

* NOV 15, 1968. MSW0 RESTORED TO BAND 10, P. 0. SEE LOC SMSMT-SYMS IDENT H09 7/14/67-

DELSYM-

1ORG EQU *-

LOCORG MACRO D-

2ORG EQU *-1ORG-

BSS D(1)-2ORG-

ENDM-

USYM MACRO D-

SD(1) BSS 0-

D(2) EXT D(1)+X-

2ORG NARG-

* IF 2ORG-2-

BSS D(3)-

ELSF 1-

ZRO-

ENDF-

ENDM-

XSYM MACRO D

SD(1) EQU **X-

2ORG NARG-

IF 2ORG-1-

BSS D(2)-

ELSF 1-

ZRO-

ENDF-

ENDM-

SX EQU 34000B-

-

* TEMP STORAGE FOR CLASS 2 BRS'S-

-

LOCORG 2-

-

XSYM SBRST-

XSYM GSIN1 BRS 33-

* XSYM GSIN2

XSYM GSIN3-

XSYM * STR01 BRS 34,35-

XSYM STR02-

XSYM STR021-

XSYM STR03-

XSYM * OUTN01 BRS 36-

XSYM OUTN02-

XSYM OUTN03-

* XSYM OUTN04-

XSYM OUTN05-

XSYM * GETN01 BRS 38-

XSYM GETN02-

XSYM GETN03-

XSYM GETN07-

XSYM GETN08-

USYM * XWR1, WR1 BRS 37-

USYM XWR2, WR2-

USYM XWR3, WR3-

/SYMS/
142, MONIT.

*	USYM	XWR31,WR31-
	XSYM	WR4,30-
XWR4	EXT	WR4-X-
	USYM	XWR5,WR5-
	USYM	XWR6,WR6-
	USYM	XWR7,WR7-
	USYM	XWR8,WR8-
	USYM	XWR9,WR9-
	USYM	XWR10,WR10-
	USYM	XWR11,WR11-
	USYM	XWR12,WR12-
	USYM	XWR13,WR13-

LOCORG 225B-

	USYM	UBRSRT,UPL-
	USYM	UA,UBA-
	USYM	UB,UBB-
	USYM	UX,UBX-
	USYM	CMRL1,UBRL1-
	USYM	CMRL2,UBRL2-
	USYM	UE,UBE-
EXRL	EXT	EXRL1-
\$EXRL1	ZRO	0-
\$EXRL2	ZRO	0-
	USYM	PRGRL1,UPRRL1-
	USYM	PRGRL2,UPRRL2-
PRGRL	EXT	PRGRL1-
*	USYM	SSRL1,USSRL1-
	USYM	SSRL2,USSRL2-
SSRL	EXT	SSRL1-
\$UFD	BSS	256
UFDE	EXT	UFD+256-
FDEND	EXT	UFD+247-
\$OPF	BSS	6
OPFE	EXT	*-
\$LGTM	ZRO	0
\$LOGONT	ZRO	0
\$ULFLG	ZRO	0-

USERS FILE DIRECTORY SPACE-

OPEN FILE TABLE-

TS FOR LINK TO OPER TIMING-
LEGAL LOG ON TIMES-

* TEMPORARY STORAGE-

\$PRMA1	ZRO	0-
\$TLV1	ZRO	0-
\$TLV11	ZRO	0-
\$TLV2	ZRO	0-
\$TLV21	ZRO	0-
\$SAVELL	ZRO	0-
\$SAVEFL	ZRO	0-
\$SAVESL	ZRO	0-

\$SAVEOR	ZRO	0-	
\$TLV22	ZRO	0-	
\$TLV3	ZRO	0-	
\$RLV1	ZRO	0-	
\$RLV2	ZRO	0-	
\$RLV3	ZRO	0-	
\$RLV4	ZRO	0-	
\$RLV5	ZRO	0-	
\$SWTO	ZRO	0-	
\$SWOFF	ZRO	0-	
\$INFIL	ZRO	0-	
\$OUTFIL	ZRO	0-	
\$UTNO	ZRO	0-	USER TAPE UNIT NUMBER-
\$COPY1	ZRO	0-	
\$COPYT	ZRO	0-	
	USYM	CIN,UCIN	COMMAND INPUT FILE NO.-
	USYM	COUT,UCOUT	COMMAND OUTPUT FILE NO.-
\$UNPTR	BSS	2-	
\$UNPTR1	EXT	UNPTR+1-	
	USYM	UNO,UUNO	USER NUMBER-
	USYM	CPARW,UEXFLG	USER CONTROL PARAM WORD-
\$EXECL	BSS	7-	
\$EXECL6	EXT	EXECL+6-	

* PANIC TABLES FOR EXEC FORKS-

\$EXSL	ZRO	0-
\$EXSA	ZRO	0-
\$EXSB	ZRO	0-
\$EXSX	ZRO	0-
\$EXSR1	ZRO	0-
\$EXSR2	ZRO	0-
\$EXSM	ZRO	0-
\$SSL	ZRO	0-
\$SSA	ZRO	0-
\$SSB	ZRO	0-
\$SSX	ZRO	0-
\$SSR1	ZRO	0-
\$SSR2	ZRO	0-
\$SSM	ZRO	0-

* WORKING SPACE FOR EXEC BR'S-

\$GOFN1	ZRO	0-
\$GOFN2	ZRO	0-
\$GOFN3	ZRO	0-
\$GOFN4	ZRO	0-
\$GOFNFL	ZRO	0-
\$GOFNFT	ZRO	0-
\$RETURN	ZRO	0-
\$RTURN1	ZRO	0-

\$GOFNS	BSS	2-
GOFNS1	EXT	GOFNS+1-
\$FN1	ZRO	0
\$FN2	ZRO	0-
\$GBUF	BSS	3-
GBUFE	EXT	GBUF+3-
\$GCTL	ZRO	0-
\$GETSTL	ZRO	0-
\$DEL1	ZRO	0-
\$DEL2	ZRO	0-
\$DEL3	ZRO	0-
\$FDEL2	ZRO	0-
\$FDEL3	ZRO	0-
\$FDEL4	ZRO	0-
\$FDEL41	ZRO	0-
\$PTR1	ZRO	0
\$PTR2	ZRO	0-
\$PTSTAT	ZRO	0
*\$PTR3	ZRO	0-
\$PTR4	ZRO	0-
\$PTR5	ZRO	0-
\$PMTFL	ZRO	0-
\$MAGTFT	ZRO	0-
\$MAGT	ZRO	0-
\$MTFL1	ZRO	0-
\$TEND	ZRO	0-
\$MTPFN	ZRO	0-
\$UN01	ZRO	0-
\$ECDMP6	ZRO	0-
\$ECRV6	ZRO	0-
\$ERB2	ZRO	0-
\$ERB3	ZRO	0-
\$DRSW2	ZRO	0-
\$DRSW3	ZRO	0-
\$DRSW9	ZRO	0-
\$SYSTL	ZRO	0
\$SYSRRL	ZRO	0-
\$GBIOPT	ZRO	0-
\$GBIOFN	ZRO	0-
\$GBIOSW	ZRO	0-
\$GBIO2	ZRO	0-
\$GBIOCR	ZRO	0-
\$GBIOC2	ZRO	0-
\$GBIO4	ZRO	0-
\$GET1	ZRO	0-
\$GET2	ZRO	0-
\$GET3	ZRO	0-
\$GET4	ZRO	0-
\$GET5	ZRO	0-
\$GETFN	ZRO	0-
\$GETPL	ZRO	0-
IOFILE	EXT	GETFN-
\$SUSR1	ZRO	0-
\$SUSR2	ZRO	0-

*****-

STATUS OF USERS TAPE REQUEST (DURING TAPE)

-1 IF NO SUBSYS, HASH ADDR OTHERWISE-

\$SUSR3	ZRO	0-
\$RSU1	ZRO	0-
\$RSU20	ZRO	0-
\$RSU21	ZRO	0-
\$RSU3	ZRO	0-
\$RSU4	ZRO	0-
\$UREAL	ZRO	0-
\$LREAL	ZRO	0-
\$LTJOB	ZRO	0-
\$TWMSG	ZRO	0-
\$DGCNT	ZRO-	
\$SPACES	ZRO-	
\$OVFL	ZRO-	
\$ERRFLG	ZRO-	
\$OVDGTS	ZRO-	
\$IOD	ZRO-	
\$IOW	ZRO-	
\$IOFMT	ZRO-	
\$DEXP	ZRO-	
\$IODEXP	ZRO-	
\$SIGN	ZRO-	
\$NCONV	ZRO-	
\$RLI01	BSS	2
\$RLI02	ZRO-	
\$RLI04	ZRO-	
\$RLI05	ZRO-	
\$RLI06	ZRO-	
\$RLI07	ZRO-	
\$RNDFLG	ZRO-	
\$EXPFLG	ZRO-	
\$DFLG	ZRO-	
\$PLUS	ZRO-	
\$MINUS	ZRO-	
\$PERIOD	ZRO-	
\$EEE	ZRO-	
\$ENDCHR	ZRO-	
\$FFL	ZRO-	
\$FFA	ZRO-	
\$FFX	ZRO	
\$OUTSX	ZRO-	
\$RNDX	ZRO-	
\$RLITEX	ZRO-	
\$FIOW	ZRO-	
\$A1	ZRO-	
\$A2	ZRO-	
\$A3	ZRO-	
\$ULINK	ZRO	0-
\$IOLINK	ZRO-	
\$ERRNUM	ZRO-	
\$PRWRD	ZRO-	
\$LIB	BSS	128-
\$LIBE	EQU	*-
\$DTEMP	EQU	3777B-NBUF*NBW-
\$DTEMPE	EQU	DTEMP+64-

SFDIRE EQU DTEMPE+256-

LOCORG 4000B-

ENTRY SYSGOX-

ENTRY Q0,Q1,Q1N,Q1E,NLQ-

ENTRY PNEXT,PL,PA,PB,PX,RL1,RL2,PPTR,PTEST,PQU,PTAB,PIM-

ENTRY #NXTPI,PL6,PACT1,PPTR2,PPTRU-

*-

* CONSTANTS AND TABLES-

*-

\$DRAT BSS NDRAT*NSEC-

\$EDRAT EQU *-

\$PACPTR ZRO 0

PAC PTR OF CURRENT JOB-

\$JOB ZRO 0

JOB NO. OF CURRENT JOB-

\$UTTY ZRO 0

TTY NO. OF CURRENT JOB-

\$TJOB ZRO 0

ELAPSED TIME POINTER-

\$DBAJOB ZRO 0

DBA POINTER-

\$PMTJOB ZRO 0 *

POINTER TO CURRENT PMT-

* MASKS

\$PLMSK DATA 77770000B-

\$PRMSK DATA 7777B-

\$ADMSK DATA 37777B-

\$X0 DATA 00000000B-

\$X1 DATA 10000000B-

\$X2 DATA 20000000B-

\$X3 DATA 30000000B-

\$X4 DATA 40000000B-

\$X5 DATA 50000000B-

\$X6 DATA 60000000B-

\$X7 DATA 70000000B-

\$XN1 EQU X7-

\$XN2 EQU X6-

\$XN3 EQU X5-

\$XN4 EQU X4-

\$XN5 EQU X3-

\$XN6 EQU X2-

\$XN7 EQU X1-

\$XX DATA 37777777B-

* QUEUES-

QUEUE MACRO N-

\$Q.N(1) DATA Q.N(2),Q.N(1)-PNEXT,Q.N(2)-

\$Q#N(1).Q EQU Q.N(1)-PNEXT-

ENDM-

Q0 EQU *-

QUEUE TI,IO-

```

        QUEUE IO,SQ-
        QUEUE SQ,QE-
        QUEUE QE,TI-
Q1      EQU   *-
QIN     EQU   Q1+1-
QIE     EQU   Q1+2-
NLQ     DATA Q0-Q1-
-

```

* PACT TABLE

```

PACT    BSS    NPAC*NPPAR-
PACT1   EQU    PACT+NPPAR-
PDATA   EQU    *-
PNEXT   EQU    PDATA+0-
PL      EQU    PDATA+1-
PA      EQU    PDATA+2-
PB      EQU    PDATA+3-
P*      EQU    PDATA+4-
RL1     EQU    PDATA+5-
RL2     EQU    PDATA+6-
PPTR    EQU    PDATA+7-
PTEST   EQU    PDATA+8-
PQU     EQU    PDATA+9-
PTAB    EQU    PDATA+10-
PIM     EQU    PDATA+11-
-
PNXTP1  EQU    PNEXT+1-
PL6     EQU    PL+6-
PPTR2   EQU    PPTR+PACT-PDATA+NPPAR-
PPTRU   EQU    PPTR-NPPAR-
-

```

```

$RMT    DATA  SMT+5, SMT+1, SMT+2, SMT+3, SMT+4, SMT+14B, 0-
        BSS    NMEM-NSMEM-
SERMT   EQU    RMT+NMEM-
$RMC    BSS    NMEM                REAL MEMORY LOCKUP TABLE-
$RMC    EQU    RMC+NMEM-
$ESRMC  EQU    RMC+NSMEM-
$RMA    BSS    NMEM                REAL MEMORY AGE TABLE-
$ERMA   EQU    RMA+NMEM-
-

```

* THE FIRST ENTRIES MUST BE SET TO THE EXEC AND COMMON SUBSYSTEMS-

```

$SMT    DATA  4000040B, 4100001B, 4100002B, 4100003B, 4100004B, 4100000B-
        DB     9,0,3,3                EXEC PAGES. SMT+6, SMT+10B-
        DB 12,3,1,1                EXTRA PAGE FOR BASIC-
        DB 9,3,1,1                (SMT+12: CAL, P.5)-
        DB 21,0,1,1                (SMT+13: TRAC)-
        DATA 4100005B                6TH MONITOR PAGE SMT+14B-
        DB     2,1,1,1                [QED (2)] ADD SECOND PAGE FOR QED-
        DB     8,2,2,1                (DDT)-
        DB *   2,0,1,1                (QED)-
        DB *   7,0,4,1                (CAL)-
        DB     6,0,4,1                (SNOBOL)-
        DB     5,0,4,1                (BASIC)-
DB 0,2*1,1    35 LISP    D.C. 2/69-

```

```

DB 0,1,1,1 36 RESERVED FOR SOMETHING OR OTHER BY T.E.-
DB 0,0,1,1 37 NOTHING-
DB 21,2,2,1 * (TEMP SUBSYSTEMS) SMT+40B, SMT+41B-
DB * 3,2,2,1 (FTC)-
DB 0,3,1,3 (HBS) SMT+44B, EXEC,R.0.-
DB 1,0,1,2 (HBS STATISTICS) SMT+45B EXEC, R/W-
DB 1,1,3,1 (LISP)-
DB 12,1,2,1 OPEXEC-
DB 4,0,3,1 FOS-
$NMSMT EQU *-SMT-
SMSMT DB 12,0,1,3 (MONITOR NON-RES. RESTORED BY DC ON 11/15/68)-
$RCVT BSS 0-
BSS NSMT+SMT-* SHARED MEMORY TABLE-
SMTE EXT *-
SPMTP BSS NJOB PTR TO FIRST PMT ENTRY,SMT,PMT,PMP ORDER IS FIXED-
* * FOR RECOVERY (SEE RES22)-
SEPMP EQU PMTP+NJOB-
SRL3 DATA 1; BSS NJOB1 MONITOR MAP-
* JOB INDEXED TABLES-
SPMA BSS NJOB MACHINE SIZE INFO-
$DBA BSS NJOB USER DISC ASSG-
$WERIS BSS NTTB USER ASSG TO TTY-
WERISE EXT WERIS+NTTB-
$WERISB BSS NTTB-
$LCW BSS NTTB-
$LCWE EQU *-
$DOWN DATA *-1 SHUT STATUS-
$OPR ZRO 0 SYSTEM OPERATOR USER NO.-
-
* SYSTEM PARAMETERS-
$NLOG ZRO 0 NO. LOGONS-
$TLTIM ZRO 0 ACCUM LINE TIME-
$TCTIM ZRO 0 ACCUM CPU TIME-
$UDBA ZRO 14336 TOTAL NO. OF DISC BLOCKS (*****)-
$DSCTOP ZRO 0 TOTAL DISC FILES OPENED-
$DSCWOP ZRO 0 DISC FILES OPENED FOR OUTPUT-
$DSCWC ZRO 0 NO OF DISC WRITE COMMANDS-
$DSCTC ZRO 0 TOTAL NO OF DISC COMMANDS-
$WBTIM ZRO 0 W-BUFFER ACTIVE TIME-
$RADACT ZRO 0 NO OF DISMISSALS WITH RAD ACTIVE-
$ACTCNT ZRO 0 NO OF PROGRAM ACTIVATIONS-
$SWRCTR ZRO 0 NO OF SWAPPER READS-
$SWWCTR ZRO 0 NO OF SWAPPER WRITES-
$CETIM ZRO 0 CHANNEL E ACTIVE TIME-
$SWTIM ZRO 0 SWAP WAIT TIME -
$HSWTIM ZRO 0 SWAP WAIT TIME UNDER HEAVY USAGE-
$HREAL ZRO 0 TIME UNDER HEAVY USAGE-
$STIME ZRO 0 TOTAL TIME IN SYSTEM MODE-
$REAL ZRO 0 REAL TIME CLOCK-
$SETTB ZRO 0 SCHEDULER WAIT TIME-
SETTB BSS NJOB-
$HISCR BSS 21 DISTRIBUTION OF EXECUTION TIMES-
$PACCNT BSS 11 DISTRIBUTION OF ACTIVATABLE PROGRAMS-
$NFCB ZRO 0 NUMBER OF FCB OVERFLOWS-

```


\$NLNK	ZRO	0		TOT NO. OF LINKS-
\$NRLNK	ZRO	0	*	NO. OF REFUSED LINKS-
\$NPA	ZRO	0		NO. PHYS DEV ACCESSES-
\$NLA	ZRO	0		NO. LIB ACCESSES-
\$NESC	ZRO	0	*	NO. TOP LEVEL ESCS-
\$NCOP	ZRO	0		NO. OF FILE COPIES-
\$NDEL	ZRO	0		NO. FILE DELETIONS-
\$TNERR	ZRO	0		NOISE RECORDS READ-
\$TURERR	ZRO	0		PERMANENT READ ERRORS-
\$TRERR	ZRO	0		TOTAL READ ERRORS-
\$TWERR	ZRO	0		TOTAL WRITE ERRORS-
\$DRMERR	ZRO	0		TOTAL DRUM ERRORS-
\$RADTER	ZRO	0		TOTAL RAD ERRORS-
\$RADRER	ZRO	0		TOTAL RAD READ ERRORS-
\$RDTUER	ZRO	0		TOTAL UNRECOVERABLE RAD ERRORS-
\$RDRUER	ZRO	0		TOTAL UNRECOVERABLE RAD READ ERRORS-
\$DUERR	ZRO	0	* *	UNCORRECTABLE DRUM ERRORS-
\$RTUERR	ZRO	0	*	UNCORRECTABLE READ AND WRITE ERRS-
\$CTP	DATA	2,2	*	CURRENT MAG TAPE POSITION-
\$DMIN	DATA	-1	*	MINS OF DAY & DAY OF YR.-
\$TSTATE	DATA	0,0		STATE OF MAGTAPE (0=FREE,1=READ,2=WRITE)-
\$TAPREL	DATA	0,0		HIGHER PRIORITY TAPE REQUEST FLAG-
\$MTFL	DATA	0,0		LENGTH OF TAPE FILE IN RECORDS-
\$TJNO	DATA	0,0		JOB WITH TAPE LOCKED OR -1-
\$NRCVT	EQU	*-RCVT-		
\$TDIBA	DATA	0,0		TAPE DRUM FILE BLOCK ADDRESS-
\$TDFNO	DATA	0,0		TAPE DRUM FILE NUMBER-
\$TERMWD	DATA	27657537B		TERMINATING WORD FOR FILE I/O-

* WR4 STRING POINTERS-

\$WR4X3	ZRO-			
\$XWR4X3	DATA	0-		PTS TO MBUF (LETTER MSG)-
\$MBX3	DATA	0		
\$MBX31	ZRO	0-		PTS TO GBUF-
\$XGBX3	DATA	0		ACCT, USER NO. OF USERS ONLINE-
\$AUNN	BSS	NTTB		
AUNNE	EXT	*-		
\$LETFLG	*	DATA		0-
\$MBUF	ASC	'\$/'		LETTER MESSAGE SPACE-
	BSS	43		

* BRS MODULE TRANSFER VECTOR-
 \$BRSTV DATA 06000004B,10000000B-

* TIMING TABLES-

\$PMT BSS NUMEM*NJOB PROGRAM MEMORY TABLE-

```
EPMT  EXT  *-
*      SYSGO EXIT ROUTINE-
EXS    OPD 15200000B,1,1,0,1-
SYSGOX EXS *+1; BRU *+1; CKF-
      LDA =60000B; STA 1; SKR 1; BRU *-1-
      LDA SYSB; RSH 6; STA SYSB;-
      DIR ; LRR3 ; POT =607B; ARMI =600000B ; LDX =P1-P2-
      LDA P2,2; STA 34000B+P2-P1,2; BRX *-2-
      BRU 34002B-
P1     DATA 0,0
SYSB   EXT P1-
      RSR; BRU 34002B; ALR; POT 34000B-
      EOD* 10000B; DATA IOSDE+16B; POT 34001B; RRF-
      RSR; BRU 34012B; RSE; BRU 34004B; CETE; BRU 34004B-
      BPT3; BRU 220B; BRU 24B-
P2     EQU  *-
      END-
```