

17:42 SEP 08, 1975 ID=010D
JOB IP0ST, BRU333323132, 7 . TERMINAL JOB
LIMIT (CORE, 16), (TIME, 10)
ASSIGN M:CI, (FILE, KEYN, :D00CI)
ASSIGN M:SI, (FILE, KEYN, :D00TSI)
METASYM SI, CI, LB, CN
•SS R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15
•SS SR1, SR2, SR3, SR4, D1, D2, D3, D4, *
•END

ACNCFU	91.1/REF	2240.67/CW					
ACTBIT	91.146/SREF	2704/LI	2785/LI				
AF	230.59/SET	230.59/SET	230.63/TEXT	230.65/B			
ALBIT	91.147/SREF	2781/LW	2783/LW				
AMNTSCR	1542/BANZ	1551-BG					
ANSFLGS	91.2/REF	1518/LC	1544/LB	1548/LC	1584.16/LB	1584.18/STB	1782/STB
ANSR0C	1301/LB	1806/STB	2260.6/STB				
	45-SET						
ANSRPT	91.3/REF	1516/MTW	1552/MTW	1584.14/MTW			
ANSREEL#	1549/BCS	1554-EQU					
ANSVOL	1546/CI						
ASCV0L1	1925/CW	2044=DATA					
ASPIN	91.4/REF	1664/BAL					
AVR	230.171/BNEZ	1844=RES					
AVRBZERR	1884/BLZ	1889/BANZ	1891/BNEZ	1993=RAL			
AVRDCT	91.5/REF	230.170/XW					
AVRFLGS	91.6/REF	1899/STB	1908/LC	1929/LB	1931/STB		
AVRFNMT	91.7/REF	224/MTB	225/MTB	1787/AI	1788/AI		
AVRID	91.8/REF	1507/LH	1677/LH	1688/CH	1701/STH	1779/STH	1799/STH

2212.1/MTH	2230/STH					
AVRIBERR						
1983-BAL	2019/BGE					
AVRLBERR						
1950/BANZ	1953/BNE	1988-BAL				
AVRNB0U						
91.9/REF	1614/LH	1637/LH	1645/LH	1667/MTH	1672/MTH	1694/LH
1768/MTH	1890/LH	2221/MTH	2226/LH	2229/STH		
AVRS						
1583/BAL	1646/BNEZ	1770/BDR	1772/BEZ	1810-LI	1983/BAL	1988/BAL
1993/BAL	2033/BAL	2039/BAL				
AVRTBL						
91.10/REF	1505/LD	1506/LD	1521/LD	1643/CLM	1755/CLM	1765/LD
1775/LD	1778/STD	1796/STD	1887/LD	1966/LD	2209/LD	2260.15/STD
AVRTBLNE						
91.12/REF	1639/LI	1754/LI	2095/LI	2197/AI	2209/LD	2209/LD
2210/AI	2215/AI	2260.14/AI	2260.15/STD	2260.15/STD	2260.17/AI	
AVRTBLSIZ						
91.11/REF	1491/CI	1641/CI	1673/CI	1751/LI	1753/AI	1754/LI
1895/CI	2211/CI	2260.4/CI				
AVR1						
1886/BNEZ	1892-EQU					
BA						
230.21/GEN	230.37/EQU	230.37/EQU	822/EQU	822/EQU	826/EQU	826/EQU
830/EQU	830/EQU	1132/LI	1919/LI	2012/LI	2260.11/MBS	
BAKPLB						
230.45-EQU	325/LI	332/CI	337/AI			
BATAPE						
91.13/REF	1508/AI	1659/LW	1750/LI	1755/CLM	1755/CLM	1764/AI
1772.1/AI	1883/AI	2096/LI	2197/AI	2231/AI	2235/AI	2260.17/AI
2260.55/AI						
BAUNIT1						
224-MTB	2260.9/ANLZ					
BAUNIT2						
225-MTB						
BCSTGFC						
91.148/REF	2523/LI					

BGRCFU						
BLANK	91.14/REF	2260.58/LI				
BLP	91.15/REF	317/LW				
	223-TEXT	1538/CW				
BT31T80						
	91.16/REF	216.9/EQU	216.10/EQU	216.11/EQU	216.12/EQU	216.13/EQU
	216.15/EQU	216.16/EQU	1584.17/BR			216.14/EQU
C:MSM						
CCERR	91.17/REF	1244.13/STW				
	1928/BAZ	2028-EQU				
CFUSIZE						
	91.18/REF	2260.66/AI				
CHK						
	1752/BIR	1755-CLM	1758/BDR	1772.2/B		
CHKILBL						
	1926/BNE	1933-RES				
CHKBLP						
	1539/BE	1524.13-EQU				
CHKGACN						
	694/BE	699-EQU				
CHKGNAME						
	692-EQU	696/BDR				
CHKID						
	1567/BIR	1568/LI	1585-RES			
CHKID1						
	1591/BIR	1597-RES				
CHKSR						
	1528/BAZ	1531-CI	1584.19/B			
CHKSR1						
	1531.1/BE	1531.5-BAL				
CHKO						
	1745/BGZ	1756/BE	1760-RES			
CHK1						
	1674/BGE	1769/BEZ	1773-RES			

CKFREE	2102/BAL	2198/BAL	2203.2-EQU		
CKF10	2216/B	2237-EQU			
CKF5	2212.1-MTH				
CKF6	2215-AI	2218/BANZ	2223/B	2225/BEZ	2228/BNE
CKF7	2212/BGE	2217-CW			
CKF8	2220/BLZ	2224-AI			
CKSERIAL	1616-CW				
CKZER0	2260.15-STD				
CKZER01	2214/BEZ	2222/BEZ	2236/B	2260.4-CI	
CKZER02	2260.12/B	2260.13-INT	2260.70/B		
CKZER03	2260.5/BGE	2260.54-PUSH			
C0C	91.19/SREF	918/LI	987.29/LI	987.92/LI	
C0CDSABL	91.20/SREF				
C0CENABL	91.21/SREF				
C0CMESS	91.22/SREF	987.103/STB	987.108/STB	987.115/STB	
C0C0TV	91.23/SREF				
C0CSENDX	91.24/SREF				
C0CTERM	91.25/SREF				
C0NTUGSRCH					

CP08	595=EGU	701/BNE					
CTRIG	91.26/SREF						
CVSYSID	91.27/REF	365/BAL					
DATE	91.28/REF	645/BAL	973/BAL	1599/BAL	2755/BAL	2816/BAL	2844.48/BAL
DCBIT	91.29/REF	1260/STH	1265/STS	1269/STW			
DCTSIZ	91.149/SREF	2784/AW					
DCTX	91.30/REF						
DCT1	1570/ANLZ	1633/ANLZ	1659=LW	1693/ANLZ	1742/ANLZ	1811/ANLZ	1975/ANL
DCT16	91.31/REF	2260.30/LH					
DCT24	91.32/REF	2325/LD	2487/LD				
DCT3	91.150/REF	2658/LC					
DCT4	91.33/REF	2656/LC					
DCV20	91.34/REF	1571/LB	1743/LB	1762/CB	1976/LB	2099/LB	2193/LB
DCV30	2461/LB	2844.42/LB					
DECONV	930=LB	938/BIR					
DEFAULTGACN	934/BEZ	938=BIR					
DEVCK	91.35/REF	2408/BAL					
DEVICEDOWN	682/BEZ	689=EGU					
	91.36/REF	2191/BAL	2347/BAL	2640/BAL	2834/BAL	2844.36/BAL	

	2016/B	2035=EGU				
DID	91.37/REF	978/STW				
DLTPSD	717.12/LD	717.21=IPSD				
DBSRCH	1923/B	1956=STW				
DOUBLEZERO	91.38/REF	773/LD				
DTVALCK	1306/BAL	1311/BAL	1336=EGU			
EIABRT	91.39/REF	620/LI	849/LI			
EICBK	91.40/REF	607.14/LI				
EIERR	91.41/REF	636/LI				
EAPRGG	2006/LD	2024=STW				
ECHOCR2	91.42/SREF					
ENTINT	230.91/KITV	607.2=EGU				
ERRLBG	91.43/REF	2505.39/BAL				
ERSEND	230.86/KITV	2505.2=EGU				
FCCM	91.44/REF	2043/GEN				
FKIC	2367/CB	2456=TEXT				
GDTKIVAL	1238/BAL	1242/BAL	1259/BAL	1263/BAL	1268/BAL	1288=EGU
GDTKIV1	1314=EGU	1327/B				
GDTKIV2	1308/BEZ	1322=EGU				

GDTKIV3							
1302/BCS	1329=	EQU					
GDTKIV4							
1313/BNEZ	1331=	EQU	1339/BL	1341/BG			
GETAVR							
1513/BDR	1515/BNE	1520=	EQU				
GETAVR1							
1511/B	1523=	RES	1968/B				
GETFLG1							
1903/BAL	1927/BAL	1971=	EQU				
GETUSER#							
91+45/REF	666/BAL	976/BAL	2819/BAL				
GJOBFC							
828/DATA	830=	EQU					
GJOBFULL							
813/LI	827=	EQU	830/EQU				
GJOBTXT							
230+89=KITV							
GJOBUC							
820/DATA	822=	EQU					
GJOBUSY							
806/LI	819=	EQU	822/EQU				
GJOBWAKE							
810/LI	823=	EQU	826/EQU				
GJOBWC							
824/DATA	826=	EQU					
GKIFLD							
82/DEF	230+183/BAL	304=	EQU	641/BAL	680/BAL	755/BAL	776/BAL
794/BAL	924/BAL	971/BAL	987,33/BAL	1168/BAL	1205/BAL	1301/BAL	1301/BAL
1534/BAL	1589/BAL	2064/BAL	2380/BAL	2631/BAL	2741/BAL	2746/BAL	2746/BAL
2753/BAL	2765/BAL	2777/BAL	2807/BAL	2814/BAL	2830/BAL	2844+32/BAL	2844+32/BAL
2844+46/BAL							
GKIFLD1							
232=STB	328/BDR						
GKIFLD3							
327/BCS	331=	EQU					
GKIFLD4							

GKIFLD5	329/B	334-EQU					
GMB	333/BNE	336-EQU					
GNAME	91.46/REF	2260.19/BAL	2568/BAL				
GOODNGT	644/BE	671-EQU					
HEXCK	91.47/REF	847/STW					
H0WAL0	91.48/REF						
IA	91.49/REF	1665/BAL					
ISPS	717.21/IPSD						
ISPSO	1638/BNEZ	1660-CW					
ISPS2	1651/BNEZ	1658/B	1670-MTH				
ISPS3	1643-CLM						
ISPS5	1642/BL	1650-AI					
JIBASE	1640-AI	1644/BNE	1649/BE				
JICCBUF	91.50/REF	1916/LW	1919/LI	1951/LW	1954/LW	1956/STW	1961/STW
JIJIT	1962/LI	1964/LW	2007/STD	2010.1/AI	2012/LI	2017/LW	
KA	91.51/REF	607.13/STW	621/STW	637/STW	648/MTW	902/MTW	921/STW
KBLANK	941/MTW	948/MTW					
	91.52/REF	2010.1/AI					
	202-EQU						
	211-EQU	274/CI					

KBUF	230*41-EQU	269/LW				
KCCP	230*39-EQU	230*182/STW	262/LW	273/MTW	987*98/LW	1133/AW
	1142/SW	1146/LW	2574/LW			1134/LW
KCOMGFC	91*151/SREF	2528*10/LI	2792/LI			
KCOMMA	213-EQU					
KCRET	212-EQU	230*172/LI	271/CI			
KC1	203-EQU					
KDIAG	230*82/KITV	957*RES				
KDIAG1	968/BE	970*RES				
KE0B	214-EQU	265/LI				
KEYERR	83/DEF	230*74/KITV	230*184/BCS	230*196/B	344-EQU	642/BCS
	660/B	663/BL	667/B	677/BG	684/BG	686/BNE
	756/BCS	760/BG	765/BE	775/BNE	777/BCS	784/B
	919/BEZ	925/BCS	935/B	947/BG	948*3/BG	969/B
	974/BCS	977/B	987*30/BEZ	987*32/BNE	987*34/BCS	987*93/BEZ
	1167/BEZ	1169/BCS	1174/BEZ	1176/BG	1204/BEZ	1206/BCS
	1332/B	1495/BCS	1499/BE	1501/BEZ	1517/BG	1519/BCR
	1531*3/BE	1535/BCS	1547/BE	1551/BG	1553/BG	1556/BNE
	1584*15/BG	1590/BCS	1600/BCS	1613/BANZ	1615/BNEZ	1628/BE
	1657/BLEZ	1661/BNE	1682/BE	1683/BAZ	1690/BANZ	1692/BNE
	2065/BCS	2088/B	2092/BCR	2192/BCS	2195/BCR	2309/B
	2324/BEZ	2348/BCS	2351/BCR	2362/B	2433/B	2478/BEZ
	2522/BEZ	2546/BNE	2551/BEZ	2589/LI	2632/BCS	2641/BCS
	2647/B	2676/BEZ	2725/BAZ	2727/B	2742/BCS	2747/BCS
	2754/BCS	2766/BCS	2787/BANZ	2808/BCS	2813/BNE	2815/BCS
	2820/B	2831/BCS	2835/BCS	2838/B	2844*33/BCS	2844*37/BCS
	2844*47/BCS	2844*49/BCS	2844*54/BAZ	2844*56/BEZ	2844*60/BNE	2844*40/B
						646/BCS
						698/B
						795/BCS
						972/BCS
						1128/BIF
						1318/B0L
						1530/BEZ
						1564/BG
						1636/BLZ
						1698/BNE
						2319/BNE
						2486/BNE
						2643/BCS
						2750/BG
						2817/BCS

KEYERR1	359-EQU	927.46/BCS	2105/B	2199/B	2454/B	2569/BEZ	2595/LI
KEYINA	230.188-CW	230.190/BDR					
KEYINBUF	91.53/REF 2495/STM	230.24/DATA 2575/LB	230.173/CB	987.100/LB	1132/LI	1136/LB	1148/STB
KEYING	227-TEXT	764/CD					
KEYINR	84/DEF 717.21/IPS 980/B 1211/LI 2203/B 2699/B	230.174/BE 788/BCR 927.54/B 1245/B 2285/B 2700/B	367-EQU 804/BCR 987.58/B 1270/B 2359/B 2728/B	592/B 815/BCR 987.109/B 1702/B 2455/B 2732/B	607/B 818/B 987.116/B 1800/BDR 2505.41/LI 2790/B	670/B 889/B 1152/B 1807/B 2598/B 2826/B	717/B 955/B 1189/B 1812/LI 2686/B
KEYIN20	230.181-LI	2496/B					
KEYN	3-EQU	4/DEF					
KFFFF	206-EQU	1243/LI	1264/LI				
KFL	85/DEF 1312/MTW 2748/LW	230.42-EQU 1555/MTW	338/STW 1563/MTW	675/LW 2066/MTW	681/LW 2298/LW	788/LW 2384/LW	1307/MTW 2745/LW
KFLAGS	230.40-EQU	233/STW	276/LW	323/STW	339/STW		
KFLUSH	91.54/REF	2844.45/AI					
KFRMCG	91.55/REF	230.88/KITV					
KFRMGFC	91.56/REF	2435/AI					
KFO	204-EQU	1324/LI	1338/CI				
KF9							

	205-EQU	1340/CI			
KIABORT	230.75/KITV	230.113/KITV	610-EQU		
KIANSM	230.76/KITV	1409-EQU			
KIANSO	230.100/KITV	230.103/KITV	1423-EQU		
KIANSS	230.77/KITV	1395-EQU			
KIDATE	230.78/KITV	230.79/KITV	1247-EQU		
KIDEL	91.57/REF	230.80/KITV			
KIDELT	230.81/KITV	717.2-EQU			
KIDIS	91.58/REF	230.83/KITV			
KIDL	230.21/GEN	230.29-EQU	230.37-EQU		
KIERROR	230.84/KITV	230.85/KITV	626-EQU		
KIERROR1	607.15/B	622/B	638-EQU		
KIER12	651-CH	653/BDR			
KIER13	653-BDR				
KIER15	649/BNEZ	652/BE	658/BE	661-EQU	704/B
KIFDOWN	230.115/KITV	833-EQU			
KIFLUSH	230.87/KITV	2844.2-EQU			
KIF1	2844.39/B	2844.41-LB			
KIGB	903/B	922-RES			

KIGBUP	230.98/KITV	892-EQU			
KIGDOWN	230.96/KITV	867-EQU			
KIGJOB	230.89/KITV	742-EQU			
KIGJOB1	756-BCS				
KIGJOB2	774-CI	801/B			
KIGJOB3	782/BE	785-EQU	800/BE		
KIGJOB4	772/BE	793-EQU			
KIGJOB5	769/BE	802-EQU			
KIGJOB6	789/B	805-STCF			
KIGJOB7	809/BCS	812/BCS	816-BAL		
KIGUP	230.97/KITV	907-EQU			
KIG1	948.1/BEZ	951.1-STW			
KIHEAD	230.90/KITV	927.63-EQU			
KIH1	987.99-LB	987.105/BIK			
KIH2	987.102/BE	987.106-AI			
KIJMPTBL	230.50/DEF	230.52-CSECT	230.64/USECT	230.189/BE	
KIMOUNT	230.93/KITV	1437-EQU			
KIMOUNTZ	1405/B	1419/B	1433/B	1447/B	1467-RES
KIMVHDR					

987.59/B	987.96=LI	
KINOHDR		
987.55/B	987.95/BE	987.113=LI
KIOUTPUT		
230.99/KITV	2806=EGU	
KIPL		
230.20=EGU	230.179/LM	
KIPRI		
91.59/REF	230.102/KITV	
KIRAD1ST		
230.101/KITV	2270=RES	
KIRCN		
2260.34=SLD	2260.36/BDR	
KIRCNI		
2260.39/BCR	2260.41/BCR	2260.44=RES
KIRCNI2		
2260=DATA	2260.42/AW	
KIREG		
230.104/KITV	2051=RES	
KIREGBF		
2255=GEN	2260.29/AWM	
KIREGBK		
2200/LW	2257=GEN	
KIREGBLK		
2201/STW	2254=GEN	
KIREGDCB		
2247=EGU	2258=GEN	
KIREGDD		
2241=TEXT	2260.37/AWM	2260.43/STW
KIREGFIL		
2260.25=LW	2260.28/BIR	
KIREGNDD		
2067/BNEZ	2176=RES	
KIREGND6		
1695/BEZ	1700/BIR	2196=LI
KIREGSV		
2259=TEXT	2260.51/LM	

KIREQT1	2243-TEXT	2260-52/STM					
KIREQT2	2245-TEXT	2260-47/STW					
KIREQ111	2201/STW	2240-TEXT	2258/GEN	2260-25/LW	2260-29/AWM	2260-37/AWM	2260-43/STW
	2260-47/STW	2260-52/STM					
KIREQ8	2258-GEN	2260-22/LW					
KIRQUE	2200-LW	2260-46/BEZ					
KIRQUE1	2202-BAL	2260-49/BCS	2260-53/B				
KISCRTH	230-107/KITV	1451-EQU					
KISEND	230-108/KITV	982-EQU					
KISTART	230-105/KITV	230-110/KITV	706-EQU				
KISTSY	230-109/KITV	2467-EQU					
KISTSY0	2481-LB	2484/BDR					
KISTSY1	2484-BDR	2501/BCR	2505/B				
KISTSY2	2483/BE	2498-LB					
KISTV1	987-42/BE	987-53-EQU					
KISTV2	987-49/B	987-57-EQU					
KIS1	987-38/BNE	987-40-CI					
KITBL	230-49/DEF	230-51-CSECT	230-62/USECT	230-188/CW			
KITIME	230-111/KITV	230-112/KITV	1227-EQU				

KITV	230.57-CNAME						
KMAXKIFL	230.44-EQU	324/LI					
KMCSND	230.92/KITV	1119-EQU					
KMCSND1	1135-EQU	1140/B					
KMCSND2	1138/BE	1141-EQU					
KN10	209-EQU	1310/SL S					
KN18	210-EQU	1305/SL S					
KN6	207-EQU						
KN8	208-EQU	1325/SLD					
K0BF	230.94/KITV	582-EQU					
K0BN	230.95/KITV	596-EQU					
K0ST0P	91.60/REF	2841/AI					
K0UTST0P	2811/BE	2829-EQU					
KPLB	86/DEF	230.43-EQU	230.45/EQU	230.186/LW	230.191/LW	230.192/LW	318/STW
	319/STW	320/STW	672/LW	673/LW	687/LW	688/LW	762/LW
	763/LW	778/LW	797/LM	927/LW	987.35/LW	1171/LW	1304/LW
	1309/LW	1315/LW	1323/LW	1326/STW	1461/LW	1537/LW	1566/LW
	1592/LW	2069/LW	2189/LW	2343/LW	2344/LW	2376/STW	2382/LI
	2404/LW	2416/LW	2421/LW	2541/LW	2633/LW	2634/LW	2743/LW
	2744/LW	2751/LW	2767/LW	2768/LW	2779/LW	2780/LW	2809/LW
	2832/LW	2833/LW	2844.34/LW	2844.35/LW			
KRBBCST	230.120/KITV	2509-EQU					

KRBCOM					
230.121/KITV	2791=	EQU			
KRBDCK					
2539=	EQU	2769/	BAL		
KRBDCT					
2549/	BAL	2630=	EQU	2679/	BAL
KRBDCT1				2693/	BAL
2542=	CLM			2721/	BAL
KRBDISC					
230.122/KITV	2692=	EQU			
KRBDNCK					
2655=	EQU	2726/	BAL	2733/	BAL
KRBDs1					
2687/	BAL	2698/	BAL	2703=	EQU
KRBDs2					
2707/	BANZ	2711=	EQU		
KRBDX					
2682/	B	2697=	EQU		
KRBLGG					
230.123/KITV	2764=	EQU			
KRBLSN					
2771/	BE	2775=	EQU		
KRBLVN					
2774/	B	2782=	EQU		
KRBMV					
2525/	BNE	2554=	LI		
KRBMV0					
2505.26/	BAL	2557=	EQU		
KRBMV1					
2575=	LB	2586/	BLE		
KRBMV2					
2577/	BE	2587=	EQU		
KRBMV4					
2554/	LI	2571/	CI	2589=	LI
KRBS					
230.124/KITV	2717=	EQU			
KRBSC					

2528.11/B	2548=EGU	2793/B				
KRBSEND						
230.125/KITV	2529=EGU					
KRBSPN						
2646/BAL	2664=EGU	2685/BAL	2731/BAL			
KRBSPN1						
2649/BNE	2651/BEZ	2671=BDR	2688/B	2689/B	2734/B	2735/B
KRBSPN2						
2667=CW	2671/BDR					
KRBWIT						
230.126/KITV	2740=EGU					
KRBS1						
2720/BE	2729=EGU					
KRBWSN						
2637/BNE	2645=EGU					
KRBX						
230.127/KITV	2674=EGU					
KRBX1						
387/BNEZ	2678/BE	2683=EGU				
KSCPU						
230.106/KITV	1154=EGU					
KSCPU1						
1171=LW	1208/BAL					
KSCPU2						
1170/LI	1177.1=EGU					
KSGCG						
87/DEF	2441=EGU	2527/B	2761/LI	2844/B	2844.61/B	
KXCPU						
230.114/KITV	1191=EGU					
KXCPU2						
884/BAL	1211.1=LW					
KXCPU3						
1211.3-DISABLE	1218.1/BDR					
KO						
197=EGU	322/LI					
K1						
198=EGU	234/AI					

K2	199-EQU					
K5	200-EQU					
K8	201-EQU	266/LCI				
L	1462/CW					
LBIUN	91.61/SREF					
LF	230.63-TEXT					
LIPBIT	91.152/SREF	2704/LI	2785/LI			
LNOL	91.62/SREF					
LGC	230.48-EQU	230.130/USECT				
LOCK	1596/BE	1686-RES				
LPART	91.63/REF	650/LI	948.2/CI	1624/LI		
LSERIAL	91.64/REF	1575/LB	1629/LB			
MAP	717.21/IPSD					
MASKS	91.65/REF	216.1/EQU	216.2/EQU	216.3/EQU	216.4/EQU	216.5/EQU
	216.7/EQU	216.8/EQU	2844.58/LI			216.6/EQU
MASTER	717.21/IPSD					
MAXDAYVAL	1262/LI	1275-DATA				
MAXG	91.66/REF	656/LI	690/LI			
MAXHRVAL	1237/LI	1272-DATA				

MAXMINVAL				
1241/LI	1273=DATA			
MAXMONVAL				
1258/LI	1274=DATA			
MAXYRVAL				
1267/LI	1276=DATA			
MBSOP#				
91.67/REF	1624/LI			
MCFC				
1906/LW	2043=GEN			
MING				
91.68/REF	662/CI	856/CI		
MNTSCR				
1536/BDR	1543/BL	1550/B	1562=EGU	
MDE2				
91.69/SREF				
MPBITS				
46=SET				
MSGT				
1957/LW	1969=GEN			
MSMDAT				
1244.7/MH	1245.4=GEN			
MXSTRM				
91.70/REF	2316/CI			
M16				
216.1=EGU	1949/CW			
M2				
216.2=EGU	1802/AND			
M24				
216.5=EGU				
M7				
216.3=EGU				
M8				
216.4=EGU				
NDD				
91.71/REF	1488/BAL	1503/BAL		
NEWQ				

91.72/REF	1150/BAL	2015/BAL			
NKEYINS					
230.129/EQU	230.187/LI				
NKIDL					
230.21/GEN	230.37/EQU				
NBRANCH					
225.1=B	1211.1/LW				
NBCC					
1904/BCR	1912/EQU				
NBIDPUB					
1619/BE	1677=LH				
NOTBLP					
1540=EQU					
NOTUNIQUE					
1810/LI	1815=TEXTC				
NOTVOL1					
1918/BNE	1924=EQU				
NUNTSW					
1497/BNE	1512=EQU				
NSCPU					
381/LI	1166/LI	1175/CI	1203/LI		
NUM					
230.59/SET					
NXKICHR					
88/DEF	248=EQU	276.1/BEZ	326/BAL	2364/BAL	2373/BAL
NXKICHR2					
275/BNE	279=EQU				
NXKICHR3					
282=EQU	286/BDR				
NXKICHR31					
285=AI					
NXKICHR32					
287=LCI					
NXKICHR4					
266=LCI	272/BE	284/BE			
NXKICHR5					
264/BL	268=RES				

0ADBIT						
91.153/SREF	2681/LI	2684/LI	2723/LI	2730/LI		
0CPCK						
2402/BAL	2419/BAL	2457-EQU				
0CPI6						
91.73/SREF	2458/LI					
0CPTYP						
91.74/SREF	2462/CI					
0CQUEUE						
91.75/REF	362/BAL	816/BAL	1813/B	1963/BAL		
0FFBIT						
91.154/SREF	886/LI	2521/LI	2675/LI	2680/LI	2723/LI	2730/LI
0HINM						
91.76/REF	2306/CH					
PLBIMIN						
91.77/REF	1625/LB					
PLHISID						
91.78/REF	651/CH					
POSTAPE						
1902/BAL	1935/BAL	1937/BAL	1939/BAL	1941/BAL	1996-EQU	
POSTAPE1						
1911/BAL	2003-EQU					
PREMBUNT						
1588/BNE	1606-RES					
PUBLK						
1594/BE	1623-RES					
QUEUE						
91.79/REF	2202/BAL					
RAD1ST						
91.80/REF	2284/STW					
RAS:DOL						
91.81/SREF	1130/AND					
RAT:DCT4						
91.82/REF	1634/BAL	2232/BAL				
RBIFLAG						
91.155/SREF	2661/STS	2706/CW	2708/STS	2712/STS	2724/CW	2786/CW
2789/STS						

RBBIID	91.156/REF	2550/MTB	2650/MTB				
RBCODE	78=SET	91.145/D0	230.119/D0	885/D0	2349/D0	2499/D0	2507/D0
	2598.2/D0						
RBDIWSN	91.157/SREF	2648/CD	2788/STD				
RBLIMS	91.158/REF	2350/CLM	2500/CLM	2642/CLM	2666/LW	2667/CW	
RBXBIT	91.159/SREF	2681/LI	2684/LI	2696/LI			
RDILBL	1896/BGE	1946=LI					
READTAPE	1915/BAL	1948/BAL	2005=EQU				
REAVR	1900=EQU	1932/B					
REEL#	1531.4/B	1557/ANLZ	1561/B	1565=EQU			
REQORS	2086/BE	2090=LB					
REQTY	2073/BE	2082/BE	2095=LI				
REQTY1	2097=CI	2104/BIR					
REQTY2	2098/BE	2101/BNE	2103=AI				
REST	1569=LW	1696/BAL					
REST10	1572=CW	1579/BDR					
REST20	1573/BNE	1579=BDR					
REST30	1576/BEZ	1581=CB					
RMB	91.83/REF	2555.42/B	2591/BLEZ	2593/BG	2597/B		

RSERIAL	91.84/REF	1581/CB					
RO	52. EQU	230.179/LM	230.180/STM	324/LI	328/BDR	335/BR	341/LC
	715/LI	766/SLD	767/STR	770/PUSH	786/PULL	987.44/LD	987.100/LB
	987.101/CI	987.103/STB	987.114/LI	987.115/STB	1136/LB	1137/CI	1148/STB
	1237/LI	1241/LI	1244.4/LB	1244.5/AI	1244.6/AW	1258/LI	1262/LI
	1267/LI	1300/PUSH	1303/PULL	1330/PULL	1544/LB	1545/AND	1546/CI
	1898/LI	1949/CW	2017/LW	2018/CW			
SIBUAIS	91.85/REF	880/STW	940/LW	950/STW			
SICUN	91.86/REF	2008/LW					
SIGJOBACN	91.87/REF	700/CD					
SIGJOBTL	91.88/REF	693/CD					
SIGUAIS	91.89/REF	943/AW					
SIMBSF	91.90/REF	2234/STW					
SIMPKYN	91.91/SREF	1186/MTW	1220/MTW				
SINUMC	230.59/SET						
SIBUAIS	91.92/REF	879/STW	943/LW	951.1/STW			
SBIGJOBUN	91.93/REF	657/CB	702/LB				
SBIINIT	91.94/SREF	1181/LB	1184/STB	1213/LB	1216/STB		
SBIRTY	91.95/REF	2090/LB					
SBISTATE	91.96/SREF						
SCNTXT	91.97/REF	2844.55/LH					

SCSV DGI	91.98/REF	2844.59/CS					
SEP10	1625=LB	1632/BDR					
SEP20	1626/BEZ	1631=AI					
SETNEW	1675/B	1680/BGE	1684/B	1759/B	1781/BDR	1794=LI	
SGCQ	91.99/REF	2453/BAL	2596/BAL				
SGCQ2	91.160/REF	2762/B					
SHIRBCU	91.100/REF	1655/SH					
SHIRGCU	91.101/REF	1656/SH	1670/MTH	2233/MTH			
SHIRNM	91.102/REF	781/CH	2085/CH				
SHIRBCU	91.103/REF	1654/SH					
SHIRTOT	91.104/REF	1653/LH					
SIXPACK	91.105/REF	1559/BAL	1920/BAL				
SKEYIN	1463/BNE	2300/BNE	2302/BNE	2330=EQU			
SKEYIN2	2360=EQU	2365/BCS	2379/BNE	2381/BCS	2386/BLEZ	2388/BG	2391/BNE
	2409/BCS	2411/BG	2427/B	2459/BEZ	2463/BNE		
SKFCK	2354/BAL	2363=EQU	2425/BAL				
SKFF	2400/B	2414=EQU					
SKFJ	2402=BAL						
SKFB	2401/B	2418=EQU					

SKFRM						
	2355/B	2395= EQU				
SKFRM1						
	2399=B	2426/B				
SKFRM2						
	2424/BNE	2429= EQU				
SKFSET						
	2372= EQU	2403/BAL	2415/BAL	2420/BAL		
SKF1						
	2407/B	2413/B	2417/B	2422= EQU		
SKIN						
	230.195, BE	2287= EQU				
SKIN1						
	2328/B	2345= EQU				
SKIN2						
	2314= BDR	2321/B				
SKIN3						
	2315, B	2317, BLE	2322= EQU			
SMUIS						
	91.106/REF	848/LI	946/CI			
SNDDX						
	91.107/REF	2311/LB	2320/LB	2477/LI	2480/LB	2498/LB
SNDGFC						
	91.161/REF	2547/LI				
SNULL						
	91.108/REF	853/CI				
SOLICIT						
	91.109/REF	1500/MTB	1529/MTB	1607/LB	1647/LB	1780/STB
	1385/MTB					1795/STB
SRCHAVR						
	1621, B	1741= RES				
SSTAT						
	91.110/REF	591/MTB	606/STB			
START*KEYIN						
	49/B	230.132= RES	3016/END			
STARTBIT						
	1183/AI					

STBITYP				
91.111/REF	2312/CB			
STOPBIT				
1215/AI				
SVIRSIZ				
91.112/REF	779.1/LI	1631/AI	2083.1/LI	
SWITGFC				
91.162/REF	2760/AI			
SYMC0M				
91.113/REF	2358/BAL			
SYMTABCK				
91.114/REF	2431/BAL	2836/BAL	2844.38/BAL	
SYMX				
91.115/REF	2481/LB	2844.52/LB		
SYSACCT				
91.116/REF	679/LD			
SYSTRT				
91.117/REF	225.1/B	1211.2/STW		
S7S9				
1128/BIF				
T:BTSCHEID				
91.118/REF	716/BAL			
T:DELUS				
91.119/REF	369/B			
TIGJOB				
91.120/REF	787/BAL			
TIGJOBSTRT				
91.121/REF	803/BAL	987.45/BAL	1188/BAL	1223/BAL
TIRUE				
91.122/REF	669/BAL	860/BAL		
TB:FLGS				
91.124/REF	2091/LC	2194/LC		
TB:FLGS1				
91.123/REF	1977/LC			
TIME				
91.125/REF	1239/STH	1244/STS	1244.4/LB	2505.37/LW
TPIGE0N				

987.44/LD	927.61=TEXTC		
TSERIAL			
91.126/REF	1569/LW	1572/CW	1627/CW
TSTACK			
230.176/LW	2460/LW*	2776/PSW	2778/PLW
TXMOOSE			
90/DEF	228=TEXTC	1187/LD	1222/LD
TXTGO			
230=TEXT	2812/CW		
TXTSTOP			
229=TEXT	2810/CW		
TYPERR			
1583=BAL	1763/BNE		
TYPMNSZ			
91.127/REF	2305/LI		
T1			
1244.4=LB	1244.8/BIR		
UBIUS			
91.128/REF	851/LB		
UHIFLG2			
91.129/REF	2822/LH	2824/STH	
UXIJIT			
91.130/REF	2009/LOAD		
VERB			
216.18=EQU	1527/CW		
VBL1			
1917/CW	2045=TEXT		
WAKEUP			
91.131/REF	1774/BAL	1798/BAL	
WK			
717.21/IPSD			
X			
230.56=SET	230.66=SET	230.66/SET	230.129/EQU
XCF			
221=DATA			
XF			
216.7=EQU	1173/AND		

XFC	91.132/REF	1182/AND	1214/AND	
XFF	216.6-EQU	1337/AND		
XFF0A00	1894/BR	2047-DATA		
XF7	222-DATA			
X0	91.133/REF	2240.11/MBS		
X1000FFFF	91.134/REF	1620/AND		
X30	218-DATA	1545/AND		
X7FF	216.8-EQU	2240.31/AND		
X80	216.9-EQU	2823/BR		
X88	2048-DATA			
Y	230.59-SET	230.60/ERROR	230.61/GOTO	
YC1FF	216.17-DATA	1612/CW	1766/CW	1888/CW
YC5FF	219-DATA			
YFFFF	91.135/REF			
Y000A	91.136/REF			
Y01	216.16-EQU	364/LW		
Y04	216.15-EQU	1938/LW	1940/LW	
Y06	91.137/REF	1936/LW		
Y07				

	91.138/REF	1934/LW					
Y08	216.14-EQU	216.18/EQU	1901/LW	1907/LW	2018/CW		
Y1	216.13-EQU	1464/LW	1524/CW	1531.2/CW	1609/CW	1747/CW	1910/LW
Y18	91.139/REF	2217/CW	2260.10/BR				
Y2	216.12-EQU	1404/LW	1541/CW	1679/CW			
Y3	91.140/REF	1418/LW	1921/LW				
Y4	216.11-EQU	1432/LW	1498/CW	1514/CW			
Y8	216.10-EQU	335/BR	1671/BR				
ZAP10	850-EQU	864/BDR					
ZAP20	854/BE	857/BLE	863-EQU				
1A1	2260.60/BCS	2260.62/BAZ	2260.64/BNE	2260.66-AI			
1A2	2260.59-LC	2260.68/BLE					
1MIN	91.141/REF	1244.10/SW					
2741CODE	77-SET						
\$PEND	230.61/G0T0	230.67-PEND					
!LBL	1952/CW	2046-TEXT					

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01 00000

M KEYN DRIVER MODULE FOR KEYIN OVERLAY

*
KEYN EQU *
DEF KEYN MODULE BIAS

P NAME: KEYN

P PURPOSE: TO PROVIDE A DRIVER FOR ALL OPERATOR KEYINS.

P DESCRIPTION: THE KEYIN LOAD MODULE (OF WHICH KEYN IS THE MAIN
MODULE) EXISTS AS A MONITOR OVERLAY ALTHOUGH IT
EXECUTES AS A GHOST JOB (USER #1). DEPRESSING THE
OPERATOR'S CONSOLE INTERRUPT GENERATES A XISDI
INTERRUPT. CONTROL PASSES TO BCINT (IN IOQ) WHERE A
WRITE REQUEST IS QUEUED FOR THE OPERATOR'S CONSOLE
CONSISTING OF TWO CHARACTERS: 'N/L', ' '. THIS IS
FOLLOWED BY A READ REQUEST OF 72 CHARACTERS INTO
KEYINBUF WITH END-ACTION. AN I/O INTERRUPT IS
GENERATED WHEN THE OPERATOR TERMINATES HIS INPUT WITH
A 'N/L' CHARACTER. THE END-ACTION ROUTINE THEN CALLS
T:GJOBSTRT FOR KEYIN ON ALL OPERATOR KEYINS EXCEPT
THOSE OF THE FORM: VYND,X (THESE ARE HANDLED DIRECT
LY BY IOQ).

P KEYIN ALSO HANDLES TAPE AND PAPER AVRRING. THIS IS
INDICATED BY IOQ PUTTING THE DCT INDEX OF THE INTERRU
DRIVE IN AVRDCI (IN TABLES).

P THE KEYIN GHOST JOB BEGINS EXECUTION (MASTER/MAPPED)
AT TIOV WITH A REQUEST TO ASSOCIATE THE KEYIN OVERLAY
AS THE RESULT OF SPECIAL PROCESSING IN THE SWAPPER
WHICH SETS UP KEYIN'S INITIAL TSTACK ENVIRONMENT.

P ALL KEYINS ARE HANDLED IN THE KEYN MODULE EXCEPT THE
FOLLOWING:

P	DELETE	HANDLED BY DELPRI
P	PRIO	HANDLED BY DELPRI

H01 17:42 SEP 08, 1975

39

P

FORM

HANDLED BY DELPRI

40

P

DISPLAY

HANDLED BY DISPLAY

41

P

42

P

REFERENCE: CP-V OPERATIONS REFERENCE MANUAL

43

44

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45

00000001

ANSPROC

SET

1

46

00000001

MPBITS

SET

1

47

SYSTEM

UTS

49

01 00000

6800001A

B

START KEYIN


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50
51
52 00000000
53 00000001
54 00000002
55 00000003
56 00000004
57 00000005
58 00000006
59 00000007
60 00000008
61 00000009
62 0000000A
63 0000000B
64 0000000C
65 0000000D
66 0000000E
67 0000000F
68 00000008
69 00000009
70 0000000A
71 0000000B
72 0000000C
73 0000000D
74 0000000E
75 0000000F
    
```

PAGE

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*
R0 EQU 0
R1 EQU 1
R2 SET 2
R3 EQU 3
R4 EQU 4
R5 EQU 5
R6 EQU 6
R7 EQU 7
R8 EQU 8
R9 EQU 9
R10 EQU 10
R11 EQU 11
R12 EQU 12
R13 EQU 13
R14 EQU 14
R15 EQU 15
SR1 EQU 8
SR2 EQU 9
SR3 EQU 10
SR4 EQU 11
D1 EQU 12
D2 EQU 13
D3 EQU 14
D4 EQU 15
    
```

SYMBOLIC REGISTER DEFIN.

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H01 17142 SEP 08, '75

76
77 00000001
78 00000001

2741CODE PAGE
RBCODE SET 1
SET 1

SET FOR 2741 CAPABILITY
SET TO ZERO FOR NO RB CODE

W01 17142 SEP 08, '75

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90

PAGE
DEF
DEF
DEF
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DEF
DEF

GKIFLD
KEYERR
KEYINR
KFL
KPLB
KSGCO
NXXICHR
TXMOOSE

SUBR TO ACQUIRE NEXT KEYIN FIELD
COMMON KEYIN ERROR EXIT
COMMON KEYIN NORMAL EXIT
DISPLACEMENT TO FIELD LENGTH IN KPL
DISPLACEMENT TO BUFFER IN KPL
COMMON ROUTINE TO INTERFACE TO SGCO
SUBR TO OBTAIN NEXT CHAR IN KEYINBU
TEXTC 'MOOSE'

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PAGE		
REF	ACNCFU	TO DERIVE PACK STATUS (REQUEST)
REF	ANSFLGS	FOR 'ANSM'/'ANSS' KEYINS
REF	ANSPRT	FOR 'ANSM'/'ANSS' KEYINS
REF	ASPIN	RESOURCE ALLOCATION FOR PUBLIC MOUN
REF	AVRDCY	DCT INDEX FOR AVR PROCESS
REF	AVRFLGS	SET CODE CONVERSION IN AVR
REF	AVRFNMT	FOR 'ANSM'/'ANSS' KEYINS
REF	AVRID	USER ID FOR MOUNT PROCESS
REF	AVRNOU	DEVICE USAGE FOR MOUNT PROCESS
REF	AVRTBL	DATA FOR MOUNT PROCESS
REF	AVRTBLSIZ	DATA FOR MOUNT PROCESS
REF	AVRTBLNE	DATA FOR MOUNT PROCESS
REF	BATAPE	TO CONVERT DCTX TO AVR INDEX
REF	BGRCFU	TO DERIVE PACK STATUS (REQUEST)
REF	BLANK	ZAPPER FOR KIPL BUFFER
REF	BT31TBO	BIT MASKS
REF	CIMSM	INITIALIZED BY 'TIME' KEYIN
REF	CFUSIZE	TO DERIVE PACK STATUS (REQUEST)
SREF	CBC	TO DETERMINE IF T/S SYSTEM
SREF	COCDASBL	TO PASS 'SEND' MESSAGE TO USER
SREF	COENABL	TO PASS 'SEND' MESSAGE TO USER
SREF	COCMESS	TO PASS 'SEND' MESSAGE TO USER
SREF	COCTV	TO PASS 'SEND' MESSAGE TO USER
SREF	COSENDX	TO PASS 'SEND' MESSAGE TO USER
SREF	COCTERM	TO PASS 'SEND' MESSAGE TO USER
SREF	CP0S	TO PASS 'SEND' MESSAGE TO USER
REF	CTRIG	TO RETRY A KEYIN
REF	CVSYSID	TO CONVERT EBCDIC SYSID TO HEX
REF	DATE	INITIALIZED BY 'DATE' KEYIN
REF	DCTSIZ	TO SCAN DCT TABLES
REF	DCT1	DATA FOR DISMOUNT MESSAGE
REF	DCT16	TO DERIVE/VALIDATE 'YYNDD' ADDRESSE
REF	DCT3	TO CHECK FOR PARTITIONED RB DEVICE
REF	DCT4	FOR VARIOUS DEVICE-TYPE CHECKS
REF	DECONV	TO CONVERT EBCDIC # TO BINARY
REF	DEVCK	TO CONVERT DEV ADR TO DCTX

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REF DID
REF DOUBLEZERO
REF FIABRT
REF FICBK
REF FIERR
SREF FCHOCRR
REF FRRLOG
REF FCMC
REF GETUSER#
REF GMB
REF GOODNGT
REF HEXCK
REF HOWALB
REF JIBASE
REF JICCBUF
REF JIJIT
REF KEYINBUF
REF KFLUSH
REF KFRMCG
REF KFRMGFC
REF KIDEL
REF KIDIS
REF KIPRI
REF KOSTOP
SREF LBIUN
SREF LNOL
REF LPART
REF LSERIAL
REF MASKS
REF MAXG
REF MBSOP#
REF MING
SREF MODE2
REF MXSTRM
REF NDD
REF NEWG
SREF OCP10

INITIALIZED BY 'DIAG' KEYIN
USED AS ZAPPER
EVENT REPORTED VIA 'XI' KEYIN
EVENT REPORTED VIA 'INT' KEYIN
EVENT REPORTED VIA 'EI' KEYIN
TO PASS 'SEND' MESSAGE TO USER
CALLED VIA 'ERSEND' KEYIN
SET CODE CONVERSION ORDER CODE
TO DERIVE USER # GIVEN A SYSID
TO OBTAIN MISC BUFFERS
INITIALIZED VIA 'ZAP' KEYIN
TO CONVERT EBCDIC CHARACTER TO HEX
RESOURCE ALLOCATION FOR PUBLIC MOUN
BUFFER FOR AVR READS
USED AS TEMP DATA AREA BY AVR
START OF JIT
LOCATION OF OPERATOR'S KEYIN
GHOST FUNCTION CODE: FLUSH OUTPUT
CALLED TO PROCESS SYMBIONT FORM.CHG
GHOST FUNCTION CODE: FORMS CHG
TO PROCESS 'DELETE' KEYIN
TO PROCESS 'DISPLAY' KEYIN
TO PROCESS 'PRIORITY' KEYIN
GHOST FUNCTION CODE: OUTPUT STOP
TO DERIVE LINE # FROM GIVEN SYSID
TO DERIVE # OF COC LINE TABLES
TO DERIVE # OF BATCH PARTITIONS
MOUNT RESOURCE/EXCLUSIVE CHECK
MASKS
TO DERIVE # OF POSSIBLE ACT GHOSTS
MOUNT 'PUBLIC' EXCLUSIVE CHECK
TO PROTECT KEYIN, ALLCAT, & RBBAT
TO PASS 'SEND' MESSAGE TO USER
FOR SCANNING SYMBIONT TABLES
TO DERIVE DCTX
USED BY 'MCSND' & AVR PROCESS
TO DETERMINE IF OCP SUPPORT IS INCL

H01 17:42 SEP 08/ 178

111*
112*
113*
114*
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147*

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*

REF STBITYP
REF SVIRSIZ
REF SYMCOM
REF SYMTABCK
REF SYMX
REF SYSACCT
REF SYSTRY
REF TIBTSCHED
REF TIDELUS
REF TIGJOB
REF TIGJOBSTRY
REF TIRUE
REF TBIFLGS1
REF TBIFLGS
REF TIME
REF TSERIAL
REF TYPMNSZ
REF UBIUS
REF UHIFLG2
REF UXJIT
REF WAKEUP
REF XFC
REF XO
REF X1000FFFF
REF YFFF
REF Y000A
REF Y06
REF Y07
REF Y18
REF Y3
REF 1MIN

DB
SREF
SREF

RBC0DF
ACTBIT
ALBIT

38
TO DECODE 'SYV' FORM OF SYMB KEYIN
MAX INDEX FOR ACCESS TO RESOURCE TBI
TO PROCESS SYMBIONT*TYPE KEYINS
TO CONVERT DCTX TO SYMTAB INDEX
USED TO VALIDATE 'SSI' KEYIN
DEFAULT GHOST ACCT FOR E/X/INT KEYI
SLAVE START LOCATION
CALLED VIA 'SI' KEYIN
KEYINIS EXIT
INITIATE GJOB WITH RESOURCES
CALLED VIA 'GJOB' KEYIN
CALLED VIA 'E'/'X'/'INT' KEYINS
TEST CODE CONVERSION CAPABILITY IN
TO VALIDATE DEVICE*TYPE FOR 'REQUES'
INITIALIZED BY 'TIME' KEYIN
MOUNT RESOURCE/EXCLUSIVE CHECK
INDEX FOR DEVICE*TYPE CHK (SYM KEYI
SCAN USERS' STATES ON 'ZAP' KEYIN
X'80' BIT SET BY 'OUTPUT STOP'
FIND PHYSICAL JIT
WAKEUP USER DURING MOUNT/AVR PROCES
MASK
ZAPPER
MASK
MASK
MASK
MASK
MASK
MASK
MASK
MASK
USED TO CALCULATE C:MSM

STATUS BITS FOR 'RBDISCI'/'RBSWITCH'
STATUS BIT FOR 'RBSWITCH' KEYIN

HO1 17:42 SEP 08, '75

148*
149*
150*
151*
152*
153*
154*
155*
156*
157*
158*
159*
160*
161*
162*
163*

REF BCSTGFC
SREF DCBIT
REF DCT24
SREF KCOMGFC
SREF LIPBIT
SREF QADBIT
SREF OFFBIT
SREF RBIFLAG
REF RBB.ID
SREF RBDIWSN
REF RBLIMS
SREF RBXBIT
REF SGCQ2
REF SNDGFC
REF SWITGFC
FIN

39
GHOST FUNCTION CODE I 'RBBST' KEYI
BIT FOR 'RBSWITCH' KEYIN
'DOWN' BIT ; RB DEVICE VALIDATION
GHOST FUNCTION CODE I 'RBDISC'/'RBS
STATUS BIT FOR 'RBDISC'/'RBSWITCH'
STATUS BIT FOR 'RBX'/'RBS' KEYIN
STATUS BIT SENT VIA 'RBX' KEYIN
USED TO COMMUNICATE KEYINS TO RBBAT
USED TO DETERMINE IF LINE IS LOGGED
USED BY 'RBBDCST'/'RBSWITCH' KEYINS
USED TO VALIDATE DCTX FOR RB DEVICE
STATUS BIT FOR 'RBX'/'RBDISC' KEYIN
USED TO PASS GHOST FCN CODES TO RBB
GHOST FUNCTION CODE I 'RBSEND' KEYI
GHOST FUNCTION CODE I 'RBSWITCH'

HO1 17:42 SEP 08, 175

40

196				
197	00000000	K0	EQU	X'0'
198	00000001	K1	EQU	X'1'
199	00000002	K2	EQU	X'2'
200	00000005	K5	EQU	X'5'
201	00000008	K8	EQU	X'8'
202	0000000A	KA	EQU	10
203	0000000P1	KC1	EQU	X'C1'
204	000000F0	KF0	EQU	X'F0'
205	000000F9	KF9	EQU	X'F9'
206	0000FFFF	KFFFF	EQU	X'FFFF'
207	FFFFFFFFA	KN6	EQU	X'6'
208	FFFFFFFF8	KN8	EQU	X'8'
209	FFFFFFFF0	KN10	EQU	X'10'
210	FFFFFFFF8	KN18	EQU	X'18'
211	TEXT	KBLANK	EQU	' '
212	00000015	KCRET	EQU	X'15'
213	TEXT	KCOMMMA	EQU	' , '
214	00000026	KEBB	EQU	X'26'

				PAGE	
215					
1*		00000010	S	M16	EQU MASKS+16
2*		00000002	S	M2	EQU MASKS+2
3*		00000007	S	M7	EQU MASKS+7
4*		00000008	S	M8	EQU MASKS+8
5*		00000018	S	M24	EQU MASKS+24
6*		00000008	S	XFF	EQU MASKS+8
7*		00000004	S	XF	EQU MASKS+4
8*		0000000B	S	X7FF	EQU MASKS+11
9*		00000008	S	X80	EQU BT31T00+8
10*		00000020	S	Y8	EQU BT31T00+32
11*		0000001F	S	Y4	EQU BT31T00+31
12*		0000001E	S	Y2	EQU BT31T00+30
13*		0000001D	S	Y1	EQU BT31T00+29
14*		0000001C	S	Y08	EQU BT31T00+28
15*		0000001B	S	Y04	EQU BT31T00+27
16*		00000019	S	Y01	EQU BT31T00+25
17*	01	00001	C1FF0000 A	YC1FF	DATA X'C1FF0000'
18*		0000001C	S	VERB	EQU Y08
218	01	00002	00000030 A	X30	DATA X'30'
219	01	00003	C5FF0000 A	YC5FF	DATA X'C5FF0000'
221	01	00004	000000CF A	XCF	DATA X'CF'
222	01	00005	000000F7 A	XF7	DATA X'F7'
223	01	00006	C2D3D740 A	BLP	TEXT 'BLP'
224	01	00007	73060000 X	BAUNIT1	MTB,0 AVRPNMT,R3
225	01	00008	730A0000 X	BAUNIT2	MTB,0 AVRPNMT,R5
1*	01	00009	68000000 X	N0BRANCH	B SYSTR
226				BOUND	8
227	01	0000A	D2C5E8C9 A	KEYING	TEXT 'KEYIN'
	01	0000B	D5404040 A		
228	01	0000C	05D4D6D6 A	TXM00SE	TEXTC 'M00SE'
	01	0000D	F2C54040 A		
229	01	0000E	F2E3D6D7 A	TXTSTOP	TEXT 'STOP'
230	01	0000F	C7D64040 A	TXTG0	TEXT 'G0'

REFLEXIVE BRANCH FOR STORING

1*
2*
3*
4*
5*
6*
7*
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35*
36*
37*

01 00010
01 00010 07000060 A
01 00011 00000000 A
01 00012 00000000 A
01 00013 00000000 N
01 00014 00000000 A
01 00015

01 00018
01 00018 1 7A A
01 00018 1 61 A
01 00018 2 4D A
01 00018 3 5D A
01 00019 6B A
01 00019 1 4B A
01 00019 2 40 A
00000007

PAGE

K KEYIN=PARAMETER LIST AN 8-WORD DATA BLOCK WHICH IS BUILT
, DYNAMICALLY IN TSTACK EACH TIME KEYIN IS ENTERED:
,

WORD 0 | # DELIMITERS| BA(KEYIN DELIMITERS)
1 | CURRENT CHARACTER POSITION (KCCP)
2 | BLANK ACTIVE FLAG (KFLAGS)
3 | ADR. OF KEYIN BUFFER (KBUF)
4 | FIELD LENGTH (KFL)
5 | *
6 | * 12-CHAR FIELD BUFFER (KPLB)
7 | *

* KIDL = KEYIN PARAMETER LIST

*
KIDL BOUND 4
EQU \$
GEN,8,24 NKIDL,BA(KIDL) NO. DELIM. , BA(KEYIN DELIMITERS)
DATA 0 CUR CHAR POSITION KCCP
DATA 0 BLANK ACTIVE FLAG KFLAGS
DATA KEYINBUF ADR OF KEYIN BUFFER
DATA 0 FIELD LENGTH KFL
RES 3 12 CHAR FIELD BUFFER

* KIDL BOUND 4
EQU \$ KEYIN DELIMITER LIST

DATA,1 '!'
DATA,1 '!/'
DATA,1 '(!'
DATA,1 ')!'
DATA,1 '!,'
DATA,1 '!o'
DATA,1 '!'
NKIDL EQU BA(\$)=BA(KIDL) NO. OF KEYIN DELIMITERS

H01 17:42 SEP 08 '75

38*
 39* 00000001
 40* 00000002
 41* 00000003
 42* 00000004
 43* 00000005
 44* 0000000C
 45* 00000014
 46*

*
 KCCP EQU 1
 KFLAGS EQU 2
 KBUF EQU 3
 KFL EQU 4
 KPLB EQU 5
 KMAXKIFL EQU 12
 BAKPLB EQU 4*KPLB
 BBUND 4

CUR CHAR POSITION
 BLANK ACTIVE FLAG
 BUFFER ADDRESS
 FIELD LENGTH
 FIELD BUFFER
 MAX. KEYIN FIELD LENGTH

H01

17142 SEP 08, '75

44

```

47*
48*          01 0001A          LOC          PAGE
                                EQU          *
49*                                DEF          KITBL          CSECT BIAS FOR POSSIBLE PATCHING
50*                                DEF          KIJMPTBL        CSECT BIAS FOR POSSIBLE PATCHING
51*      02 00000          KITBL          CSECT          0
52*      03 00000          KIJMPTBL       CSECT          0
53*
54*
55*
56*          00000000          X          SET          0
57*          00000000          KITV         CNAME
58*                                PROC
59*      Y          SET          NUM(AF)<2IS;NUMC(AF(1))>4
60*                                ERROR,1,Y  'ILLEGAL/MISSING ARGUMENT FIELD'
61*                                GOT0,Y    $PEND
62*                                USECT     KITBL
63*      LF         TEXT         AF(1)
64*                                USECT     KIJMPTBL
65*                                B         AF(2)
66*      X          SET          X+1
67*      $PEND     PEND
68*
69*
70*
71*
72*
73*
74*      02 00000          40404040 A          KITV          I          I,KEYERR
75*      03 00000          68000066 01          KITV          IAB0R1,KIAB0RT          AB0RT
76*      02 00001          C1C2D6D9 A          KITV          IANSM1,KIANSM          ANSM0UNT
77*      03 00001          68000077 01          KITV          IANSS1,KIANSS          ANSSCRATCH
78*      02 00002          C1D5E2D4 A          KITV          ID          I,KIDATE          D
79*      03 00002          68000212 01
80*      02 00003          C1D5E2E2 A          KITV          ID          I,KIDATE          D
81*      03 00003          68000210 01
82*      02 00004          C4404040 A          KITV          ID          I,KIDATE          D
83*      03 00004          680001D9 01

```

HO1

17:42 SEP 08, '75

79*	02	00005	C4C1E3C5 A	KITV	!DATE!,K!DATE	DATE
	03	00005	680001D9 01			
80*	02	00006	C4C5D3C5 A	KITV	!DELE!,K!DEL	DELETE
	03	00006	68000000 X			
81*	02	00007	C4C5D3E3 A	KITV	!DELTI!,K!IDELT	DELTA
	03	00007	680000B8 01			
82*	02	00008	C4C9C1C7 A	KITV	!DIAG!,K!DIAG	DIAG
	03	00008	68000145 01			
83*	02	00009	C4C9E2D7 A	KITV	!DISP!,K!DIS	DISPLAY
	03	00009	68000000 X			
84*	02	0000A	C5404040 A	KITV	!E !,K!ERR0R	E
	03	0000A	6800007A 01			
85*	02	0000B	C5D9D9D6 A	KITV	!ERR0!,K!ERR0R	ERR0R
	03	0000B	6800007A 01			
86*	02	0000C	C5D9E2C5 A	KITV	!ERSE!,K!ERSEND	ERSEND
	03	0000C	68000501 01			
87*	02	0000D	C6D3E4E2 A	KITV	!FLUS!,K!FLUSH	FLUSH
	03	0000D	680005EA 01			
88*	02	0000E	C6D6D9D4 A	KITV	!FORM!,K!FRMCG	FORM
	03	0000E	68000000 X			
89*	02	0000F	C7D1D6C2 A	GJ0BTXT KITV	!GJ0B!,K!GJ0B	GJ0B
	03	0000F	680000BE 01			
90*	02	00010	C8C5C1C4 A	KITV	!HEAD!,K!HEAD	HEADING
	03	00010	6800016A 01			
91*	02	00011	C9D5E340 A	KITV	!INT !,K!ENTINT	INT
	03	00011	68000073 01			
92*	02	00012	D4C3E2C5 A	KITV	!MCSE!,K!MCSEND	MCSEND
	03	00012	6800017C 01			
93*	02	00013	D4D6E4D5 A	KITV	!MBUN!,K!MBUNT	MBUNT
	03	00013	68000216 01			
94*	02	00014	D6C2D6C6 A	KITV	!0B0F!,K!0BF	0B0FF
	03	00014	6800006E 01			
95*	02	00015	D6C2D6D5 A	KITV	!0B0N!,K!0BN	0B0N
	03	00015	68000070 01			
96*	02	00016	D6C6C640 A	KITV	!0FF !,K!0DOWN	0FF
	03	00016	68000117 01			
97*	02	00017	D6D54040 A	KITV	!0N !,K!0UP	0N

H01 17:42 SEP 08, 175

46

98*	03	00017	68000123	01			
	02	00018	D6D5C240	A	KITV	'0NB ,KIGBU	0NB
	03	00018	68000121	01			
99*	02	00019	D6E4E3D7	A	KITV	'0UTPI,KI0UTPUT	0UTPUT
	03	00019	680005C7	01			
100*	02	0001A	D6E5C5D9	A	KITV	'0VERI,KIANS0	0VER
	03	0001A	68000214	01			
101*	02	0001B	D7D9C5C6	A	KITV	'PREFI,KIRAD1ST	PREFER
	03	0001B	68000465	01			
102*	02	0001C	D7D9C9D6	A	KITV	'PRI0I,KIPRI	PRIORITY
	03	0001C	68000000	X			
103*	02	0001D	D9C5C1C4	A	KITV	'READI,KIANS0	READ
	03	0001D	68000214	01			
104*	02	0001E	D9C5D8E4	A	KITV	'REGUI,KIREQ	REQUEST
	03	0001E	680003B9	01			
105*	02	0001F	F2404040	A	KITV	'S ,KISTART	S
	03	0001F	680000B5	01			
106*	02	00020	F2C3D7E4	A	KITV	'SCpUI,KSCPU	SCpU
	03	00020	68000194	01			
107*	02	00021	F2C3D9C1	A	KITV	'SCRAI,KISCRTH	SCRATCH,SCRA03,SYNDD,
	03	00021	68000218	01			
108*	02	00022	F2C5D5C4	A	KITV	'SENDI,KISEND	SFND
	03	00022	68000151	01			
109*	02	00023	F2E24040	A	KITV	'SS ,KISTSY	SS
	03	00023	680004E7	01			
110*	02	00024	F2E3C1D9	A	KITV	'STARI,KISTART	START
	03	00024	680000B5	01			
111*	02	00025	F3404040	A	KITV	'T ,KITIME	T
	03	00025	680001C1	01			
112*	02	00026	F3C9D4C5	A	KITV	'TIMEI,KITIME	TIME
	03	00026	680001C1	01			
113*	02	00027	F7404040	A	KITV	'X ,KIABORT	X
	03	00027	68000077	01			
114*	02	00028	F7C3D7E4	A	KITV	'XCPUI,KXCPU	XCPU
	03	00028	680001AA	01			
115*	02	00029	F9C1D740	A	KITV	'ZAp ,KIFDOWN	ZAP
	03	00029	6800010A	01			

H01 17:42 SEP 08, '75

116*
117*
118*
119*

*
*
*

00000001

120* 02 0002A 09C2C2C4 A
 03 0002A 68000512 01

121* 02 0002B 09C2C3D6 A
 03 0002B 680005C5 01

122* 02 0002C 09C2C4C9 A
 03 0002C 68000575 01

123* 02 0002D 09C2D3D6 A
 03 0002D 680005AD 01

124* 02 0002E 09C2E240 A
 03 0002E 68000586 01

125* 02 0002F 09C2E2C5 A
 03 0002F 6800051B 01

126* 02 00030 09C2E2E6 A
 03 00030 68000597 01

127* 02 00031 09C2E740 A
 03 00031 68000567 01

DB	RB CODE	
KITV	'RBDI',KRBCST	RBDCST
KITV	'RBCB',KRBCOM	RBCOM
KITV	'RBDI',KRBDISC	RBDISC
KITV	'RBLB',KRBLBG	RBLBG
KITV	'RBS ',KRBS	RBS
KITV	'RBEI',KRSEND	RSEND
KITV	'RBSW',KRBSWIT	RBSWITCH
KITV	'RBX ',KRBX	RBX

128*
129*
130*

00000031

NKEYINS

FIN	
EQU	X=1
USECT	L0C

131*
132*
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167*

01 0001A

```

PAGE
START*KEYIN RES 0
*****
*F* NAME: START*KEYIN
*F*
*F* PURPOSE: KEYIN'S START ADDRESS
*F*
*F* DESCRIPTION: GOES DIRECTLY TO AVR PROCESSING IF AVRDCY IS NON
*F* ZERO, OTHERWISE IT BUILDS SKELETON KEYIN PARAMETER
*F* LIST IN TSTACK, ACQUIRES FIRST FIELD OF THE KEYIN
*F* BUFFER AND TRANSFERS CONTROL TO THE APPROPRIATE
*F* HANDLER.
*****
*D* NAME: START*KEYIN
*D*
*D* CALL: OVERLAY CALL AS THE RESULT OF OPERATOR KEYIN END.
*D* ACTION OR I/O INTERRUPT FROM AVR.
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: TRANSFERS CONTROL TO APPROPRIATE HANDLER DEPENDING
*D* UPON SERVICE REQUIRED (KEYIN OR AVR).
*D*
*D* INPUT: AVRDCY = 0 IMPLIES OPERATOR KEYIN
*D* /=0 IMPLIES AVR
*D* KEYINBUF OPERATOR'S KEYIN TEXT
*D*
*D* OUTPUT: R1 = FIRST 4 CHARACTERS OF KEYIN
*D* R7 = ADR OF KEYIN PARAMETER LIST
*D* AVRDCY IS ZEROED
*D*
*D* DESCRIPTION: GOES DIRECTLY TO AVR PROCESSING IF AVRDCY IS NON
*D* ZERO, OTHERWISE IT BUILDS SKELETON KEYIN PARAMETER
*D* LIST IN TSTACK, ACQUIRES FIRST FIELD OF THE KEYIN
*D* BUFFER AND TRANSFERS CONTROL TO THE APPROPRIATE
*D* HANDLER.
*****

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H01 17:42 SEP 08, 1975

```

168*
169* 01 0001A 22700000 A
170* 01 0001B 46700000 X
171* 01 0001C 69300333
172* 01 0001D 22100015 A
173* 01 0001E 71100000 X
174* 01 0001F 6830006D
175* 01 00020 2210000F A
      01 00021 13100000 X
176* 01 00022 32700000 X
177* 01 00023 207FFFF9 A
178* 01 00024 02200050 A
179* 01 00025 2A000010
180* 01 00026 280E0000 A
181* 01 00027 22100000 A
182* 01 00028 351E0001 A
183* 01 00029 6AB00050
184* 01 0002A 69800066
185*
186* 01 0002B 321E0005 A
187* 01 0002C 22300031 A
188* 01 0002D 31160000 02
189* 01 0002E 68360000 03
190* 01 0002F 6430002D
191* 01 00030 322E0005 A
192* 01 00031 323E0006 A
193* 01 00032 72100001 A
194* 01 00033 211000E2 A
195* 01 00034 6830046B
196* 01 00035 68000066

```

```

*
LI,7      0
XW,7     AVRDCY
BNEZ     AVR
LI,1     KCRET
CB,1     KEYINBUF
BE       KEYINR
BUMP     15,R1

LW,R7    TSTACK
AI,R7    #7
LCI      5
LM,R0    KIPL
STM,R0   0,R7
KEYIN20  LI,R1    0
          STW,R1   KCCP,R7
          BAL,SR4  GKIFLD
          BCS,8    KEYERR

*
LW,R1    KPLB,R7
LI,R3    NKEYINS
CW,R1    KITBL,R3
BE       KIJMPTBL,R3
BDR,R3   KEYINA
LW,R2    KPLB,R7
LW,R3    KPLB+1,R7
LB,R1    R1
CI,R1    'S'
BE       SKIN
B        KEYERR

```

IF AVR, DO IT AND RESET FLAG

MOVE PARAMETER LIST TO TSTACK

SET CUR CHAR POSITION = 0
GET 1ST FIELD OF KEYIN
CHECK IF A LEGAL FIELD

(R1) = 1ST 4 CHAR OF FIELD
(R3) = NO. OF KEYINS

GO TO APPROPRIATE ROUTINE

CHECK IF SYMBIANT KEYIN

197*
 232 01 00036 F5840007 A
 233 01 00037 358E0002 A
 234 01 00038 20200001 A
 248 01 00039

GKIFLD1 PAGE
 STB,SR1 *R7,R2 CHAR TO BFR
 STW,SR1 KFLAGS,R7 BLNK ACTIVE
 AT,R2 K1
 NXKICHR EQU *

250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260

 F NAME: NXKICHR
 F
 F PURPOSE: TO OBTAIN THE NEXT CHARACTER OF KEYIN INPUT,
 F CONDITIONALLY SKIPPING BLANKS, AND TO FLAG
 F DELIMITERS.
 F
 F DESCRIPTION: RETURNS TO THE CALLER THE NEXT CHARACTER IN THE
 F KEYIN BUFFER AND INCREMENTS THE CURRENT CHARACTER
 F POSITION IN THE KEYIN PARAMETER LIST.

1*
 2*
 3*
 4*
 5*
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 9*
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 14*
 15*
 16*
 17*
 18*
 19*

D NAME: NXKICHR
 D
 D CALL: BAL,SR4(R11)
 D
 D INPUT: R7 = ADR OF KEYIN PARAMETER LIST
 D
 D OUTPUT: SR1(R8) = NEXT CHARACTER FROM KEYIN BUFFER (KEYINBUF)
 D CC1 = 1 IF THE CHARACTER IS A DELIMITER
 D CURRENT CHARACTER POSITION (KCCP) IS INCREMENTED
 D
 D REGISTERS: R3 & R4 ARE VULNERABLE
 D
 D ENVIRONMENT: MASTER/MAPPED
 D
 D DESCRIPTION: RETURNS TO THE CALLER THE NEXT CHARACTER IN THE
 D KEYIN BUFFER AND INCREMENTS THE CURRENT CHARACTER
 D POSITION (KCCP) IN THE KEYIN PARAMETER LIST. BLANK
 D CHARACTERS WILL BE SKIPPED IF KFLAGS IS ZERO.

261
 262 01 00039 323E0001 A

LW,R3 KCCP,R7 (R3) = CUR CHAR POSITION

H01

17142 SEP 08, '75

263 01 0003A 21300048 A
 264 01 0003B 6910003F A
 265 01 0003C 22800026 A
 266 01 0003D 02200080 A
 267 01 0003E F800000B A
 268 01 0003F
 269 01 0003F 324E0003 A
 270 01 00040 F2860004 A
 271 01 00041 21800015 A
 272 01 00042 6830003D
 273 01 00043 331E0001 A
 274 01 00044 21800040 A
 275 01 00045 69300048
 276 01 00046 323E0002 A
 1* 01 00047 68300039
 278
 279 01 00048
 280 01 00048 F2300007 A
 281 01 00049 324E0000 A
 282 01 0004A
 283 01 0004A 71880000 A
 284 01 0004B 6830003D
 285 01 0004C 20400001 A
 286 01 0004D 6430004A
 287 01 0004E 02200000 A
 288 01 0004F F800000B A
 289

CI,R3 72
 BL NXKICHR5
 LI,SR1 KE0B
 NXKICHR4 LCI K8
 B *SR4
 NXKICHR5 RES 0
 LW,R4 KBUF,R7
 LB,SR1 *R4,R3
 CI,SR1 KCRET
 BE NXKICHR4
 MTW,1 KCCP,R7
 CI,SR1 KBLANK
 BNE NXKICHR2
 LW,R3 KFLAGS,R7
 BEZ NXKICHR
 *
 NXKICHR2 EQU \$
 LB,R3 *R7
 LW,R4 0,R7
 NXKICHR3 EQU \$
 CB,SR1 0,R4
 BE NXKICHR4
 NXKICHR31 AI,R4 1
 BDR,R3 NXKICHR3
 NXKICHR32 LCI 0
 B *SR4
 *

SIZE OF KEYIN BUFFER
COUNT UP TO IT

DELIM, SET CC1

(R4) = ADR OF KEYIN BUFFER
PICK UP NEXT CHAR
CHECK IF A CARRIAGE RETURN

SET CCP = CCP+1
CHECK IF CHAR IS A BLANK

CHECK IF BLANK IS ACTIVE

(R3) = NO. OF DELIM
BA (DELIMITERS)

CHECK IF CHAR IS A DELIMITER

NEXT INDEX

NORMAL RETURN

290
304 01 00050

```

PAGE
EQU $
*****
*F* NAME: GKIFLD
*F*
*F* PURPOSE: TO ACQUIRE THE NEXT FIELD FROM THE KEYIN BUFFER.
*F*
*F* DESCRIPTION: MOVES THE NEXT FIELD (<= 12 CHARACTERS) FROM THE
*F* KEYIN BUFFER TO THE FIELD BUFFER OF THE KEYIN
*F* PARAMETER LIST AND INITIALIZES THE FIELD LENGTH IN THE
*F* KEYIN PARAMETER LIST.
*****
*D* NAME: GKIFLD
*D*
*D* CALL: BAL,SR4(R11)
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D*
*D* OUTPUT: SR1(R8) = DELIMITER CHARACTER THAT TERMINATES FIELD
*D* CC1 = 1 IF 1 > FIELD LENGTH > 12
*D* KFL = FIELD LENGTH
*D* KPLB = NEXT FIELD FROM KEYINBUF, LEFT-JUSTIFIED WITH
*D* TRAILING BLANKS
*D*
*D* REGISTERS: R0 THRU R2 ARE VULNERABLE
*D*
*D* INTERFACE: NXKICHR
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: MOVES THE NEXT FIELD (<= 12 CHARACTERS) FROM THE
*D* KEYIN BUFFER TO THE FIELD BUFFER OF THE KEYIN
*D* PARAMETER LIST (KPLB) AND INITIALIZES THE FIELD LENGT
*D* IN THE KEYIN PARAMETER LIST (KFL). LEADING BLANKS AR
*D* SUPPRESSED BY SETTING KFLAGS TO ZERO PRIOR TO CALLING
*D* NXKICHR.
*****

```

305
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22*
23*
24*
25*

315				*			
316	01	00050	09B00000	N		PUSH	SR4
317	01	00051	32200000	X		LW,R2	BLANK
318	01	00052	352E0005	A		STW,R2	KPLB,R7
319	01	00053	352E0006	A		STW,R2	KPLB+1,R7
320	01	00054	352E0007	A		STW,R2	KPLB+2,R7
321							
322	01	00055	22100000	A	*	LI,R1	KO
323	01	00056	351E0002	A		STW,R1	KFLAGS,R7
324	01	00057	2200000D	A		LI,R0	KMAXKIFL+1
325	01	00058	22200014	A		LI,R2	BAKPLB
326	01	00059	6AB00039			BAL,SR4	NXKICHR
327	01	0005A	6980005D			BCS,8	GKIFLD3
328	01	0005B	64000036			BDR,R0	GKIFLD1
329	01	0005C	6800005F			B	GKIFLD4
330							
331		01 0005D			*	GKIFLD3	EQU
332	01	0005D	21200014	A		CI,R2	BAKPLB
333	01	0005E	69300060			BNE	GKIFLD5
334		01 0005F				GKIFLD4	EQU
335	01	0005F	49000020	N		BR,R0	Y8
336		01 00060				GKIFLD5	EQU
337	01	00060	202FFFEC	A		AI,R2	BAKPLB
338	01	00061	352E0004	A		STW,R2	KFL,R7
339	01	00062	351E0002	A		STW,R1	KFLAGS,R7
340	01	00063	08B00000	N		PULL	SR4
341	01	00064	70200000	A		LC	R0
342	01	00065	F800000B	A		B	*SR4

FILL BUFFER WITH BLANKS

SET BLANK NOT ACTIVE
(R0) = MAX KEYIN FIELD LENGTH+1

GET NEXT KEYIN CHAR
BRANCH IF A DELIMITER

FIELD IS MORE THAN 12CHAR LONG

CHK 0 LENGTH FLD
BRANCH IF NOT

FIELD LENGTH
SET BLANK NOT ACTIVE

EXIT

343
 344 01 00066
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*
 14*
 356
 357 01 00066 22100004 A
 358 01 00067 68000069
 359 01 00068
 360 01 00068 22100003 A
 361 01 00069 22700000 A
 362 01 0006A 6AB00000 X
 1*
 2*
 3*

KEYERR PAGE
 EQU \$

 F NAME: KEYERR
 F
 F PURPOSE: TO OUTPUT AN ERROR MESSAGE ON BC, RE-TRIGGER THE
 F CONTROL TASK, AND EXIT.
 F
 F DESCRIPTION: OUTPUTS EITHER 'EH' (IF CALL IS TO KEYERR) OR
 F 'LATER' (IF CALL IS TO KEYERR1), RE-TRIGGERS THE
 F CONTROL TASK SO THE KEYIN MAY BE RE-TRIED, AND EXITS
 F (KEYINR) TO STEP VIA TIDELUS.

 D NAME: KEYERR
 D
 D ENTRY: KEYERR1,KEYINR
 D
 D CALL: DIRECT BRANCH FOR EXIT FROM KEYIN OVERLAY
 D
 D INTERFACE: BCQUEUE, CTRIG, TIDELUS
 D
 D DESCRIPTION: OUTPUTS EITHER OF TWO MESSAGES VIA BCQUEUE:
 D 'EH' (IF CALL IS TO KEYERR) OR 'LATER' (IF CALL IS TO
 D KEYERR1); THE CONTROL TASK IS RETRIGGERED VIA A CALL
 D TO CTRIG (SO THE KEYIN MAY BE RE-TRIED); FINALLY,
 D EXIT IS MADE BY CALLING TIDELUS.

 *
 LI,1 4
 B \$+2
 KEYERR1 EQU \$
 LI,1 3 MESSAGE CODE FOR 'LATER';
 LI,7 0 CANNED MESSAGE CODE
 BAL,11 BCQUEUE OUTPUT MESSAGE

 B MESSAGE: EH
 B

H01 17:42 SEP 08, '75

4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*
15*
16*

0 MEANING: UNRECOGNIZED OPERATOR KEYIN SYNTAX
0
0 ACTION: RE-TRY THE KEYIN
0 *****
0 MESSAGE: LATER
0
0 MEANING: EITHER THE SYSTEM IS UNABLE TO PROCESS THE OPERATOR
0 KEYIN AT THIS TIME OR, IN RESPONSE TO A 'REQUEST'
0 KEYIN, THE REQUESTED UNIT IS IN USE.
0
0 ACTION: RE-TRY THE KEYIN (SPECIFYING A DIFFERENT UNIT IF THIS
0 WAS A 'REQUEST' KEYIN).
0 *****

363
364 01 0006B 32800019 N
365 01 0006C 6AB00000 X
366 01 0006D
367 01 0006D
369 01 0006D 68000000 X

*
LW,8 Y01 TRIGGER ANOTHER COPY
BAL,11 CTRIG OF KEYIN
*
KEYINR EQU *
B T:DELUS EXIT TO STEP LOGS SELF OFF

580
582 01 0006E
583
584
585
586
587
588
589
590
591 01 0006E 73100000 X
592 01 0006F 6800006D
593
594
595
596 01 00070
597
598
599
600
601
602
603
604
605 01 00070 22600000 A
606 01 00071 75600000 X
607 01 00072 6800006D

PAGE
K0BF EQU \$

F NAME: K0BF
F
F PURPOSE: TO PROCESS THE '0B0FF' KEYIN.
F
F DESCRIPTION: INCREMENTS SSTAT.

*
MTB,1 SSTAT
B KEYINR
*
*
*
K0BN EQU \$

F NAME: K0BN
F
F PURPOSE: TO PROCESS THE '0B0N' KEYIN.
F
F DESCRIPTION: ZER0ES SSTAT.

*
LI,R6 0
STB,R6 SSTAT
B KEYINR

1*
 2* 01 00073
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12* 01 00073 22600000 A
 13* 01 00074 35600000 X
 14* 01 00075 22600000 N
 15* 01 00076 6800007C

PAGE
 ENTINT EQU \$

 F NAME: ENTINT
 F
 F PURPOSE: TO PROCESS THE 'INT' KEYIN.
 F
 F DESCRIPTION: VALIDATES SPECIFIED SYSID OR GHOST JOB NAME/
 F ACCOUNT AND REPORTS AN EICBK EVENT ON THE USER.

 *
 LI,6 0
 STW,6 JICCBUF
 LI,6 EICBK
 B KIERR0R1
 *
 *
 *

1*
 2*
 3*
 610 01 00077
 611
 612
 613
 614
 615
 616
 617
 618
 619
 620 01 00077 22600000 N
 621 01 00078 35600000 X
 622 01 00079 6800007C

*
 *
 *
 KIAB0RT EQU \$

 F NAME: KIAB0RT
 F
 F PURPOSE: TO PROCESS THE 'AB0RT' AND 'X' KEYINS.
 F
 F DESCRIPTION: VALIDATES SPECIFIED SYSID OR GHOST JOB NAME/
 F ACCOUNT AND REPORTS AN E,ABRT EVENT ON THE USER.

 *
 LI,6 E,ABRT AB0RT EVENT
 STW,6 JICCBUF
 B KIERR0R1
 *
 *
 *

623
 624
 625
 626 01 0007A
 627
 628

*
 *
 *
 KIERR0R EQU \$

 F NAME: KIERR0R

629
630
631
632
633
634
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7*
8*
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27*
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30*
31*

```

*F*
*F*      PURPOSE: TO PROCESS THE IERROR, AND IEI KEYINS.
*F*
*F*      DESCRIPTION: VALIDATES SPECIFIED SYSID OR GHOST JOB NAME/
*F*                   ACCOUNT AND REPORTS AN EIERR EVENT ON THE USER.
*****
*D*      NAME:      KIERROR
*D*
*D*      ENTRY:    KIABORT, ENTINT
*D*
*D*      CALL:     KEYIN FORMAT:  **      **
*D*                   |      |
*D*                   |IERROR|
*D*                   |IE      |  **      **
*D*                   |      | |SYSID      |
*D*                   |      | |NAME:      |
*D*                   |IABORT| |NAME,ACCOUNT|
*D*                   |IX      |  **      **
*D*                   |      |
*D*                   |INT    |
*D*                   **      **
*D*
*D*      INPUT:    R7 = ADR OF KEYIN PARAMETER LIST
*D*                PLH:SID
*D*                SIGJOBTL
*D*                SIGJOBACN
*D*                SBIGJOBUN
*D*
*D*      OUTPUT:   NONE
*D*
*D*      REGISTERS: ALL ARE VULNERABLE
*D*
*D*      INTERFACE: GKIFLD, CVSYSID, GETUSER#, TIRUE
*D*
*D*      ENVIRONMENT: MASTER/MAPPED
*D*
*D*      DESCRIPTION: GKIFLD IS CALLED TO OBTAIN THE SPECIFIED SYSID

```

32*
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34*
35*
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43*
44*
45*
46*

635
636 01 0007A 22600000 N
637 01 0007B 35600000 X
638 01 0007C 331E0000 A
639 01 0007D F3F00007 A
640 01 0007E 6AB00050 A
641 01 0007F 69800066 A
642 01 00080 2180004B A
643 01 00081 68300098 A
644 01 00082 6AB00000 X
645 01 00083 69800066 X
646
647
648 01 00084 33000000 X
649 01 00085 6930008F X
650 01 00086 22700000 N
651 01 00087 512E0000 X
652 01 00088 6830008F X
653 01 00089 64700087 X
1*
656 01 0008A 22700000 N
657 01 0008B 712E0000 X

D
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D

59
OR GHOST JOB NAME. IF A SYSID WAS SPECIFIED, CVSYSID IS CALLED TO CONVERT IT TO HEX. IF THIS IS AN 'INT' KEYIN THE PARTITION TABLES AND GHOST JOB TABLES ARE SCANNED TO VERIFY THAT THE SYSID BELONGS TO AN ACTIVE BATCH OR GHOST JOB. IF A GHOST JOB NAME WAS SPECIFIED (IE., DELIMITER IS A ','), GKIFLD IS CALLED AGAIN TO OBTAIN THE ACCOUNT (IF SPECIFIED) AND THE NAME/ACCOUNT IS VALIDATED VIA THE GHOST JOB TABLES. IN EITHER CASE, GETUSER# IS CALLED TO CONVERT THE SYSID TO A USER # AND TIRUE IS CALLED TO REPORT ONE OF THE FOLLOWING EVENTS:

E:ERR (IF 'ERRORI'/'E' KEYIN)
E:ABRT (IF 'ABORTI'/'X' KEYIN)
E:CBK (IF 'INT' KEYIN)

*
LI,6 E:ERR ERROR EVENT
STW,6 J:CCBUF
KIERR0R1 EQU *
MTW,1 0,7 REMOVE '!' AS DELIMITER
MTB,1 *7
BAL,11 GKIFLD GET ID OR GHOST NAME
BCS,8 KEYERR
CI,8 ', ' GHOST NAME
BE GNAME
BAL,11 CVSYSID CONVERT TO HEX IN R2
BCS,8 KEYERR
*
MTW,0 J:CCBUF
BNEZ KIER15
LI,7 LPART
KIER12 CH,2 PLHISID,7
BE KIER15
KIER13 BDR,7 KIER12
*
LI,7 MAXG
CR,2 SBIGJOBUN,7
CHECK FOR GHOST JOB

658 01 0008C 6830008F
 659 01 0008D 6470008B
 660 01 0008E 68000066
 661 01 0008F 21200000 N
 662 01 00090 69100066
 663 01 00091 32900006 A
 664 01 00092 32600002 A
 665 01 00093 6A700000 X
 666 01 00094 68000066
 667 01 00095 32600009 A
 668 01 00096 6AB00000 X
 669 01 00097 6800006D
 670 01 00098 32CE0005 A
 671 01 00099 32DE0006 A
 672 01 0009A 25C00178 A
 673 01 0009B 322E0004 A
 674 01 0009C 21200007 A
 675 01 0009D 69200066
 676 01 0009E 7520000C A
 677 01 0009F 12E00000 X
 678 01 000A0 6AB00050
 679 01 000A1 322E0004 A
 680 01 000A2 683000A9
 681 01 000A3 21200008 A
 682 01 000A4 69200066
 683 01 000A5 21800015 A
 684 01 000A6 69300066
 685 01 000A7 32EE0005 A
 686 01 000A8 32FE0006 A
 687 01 000A9 22200000 N
 688 01 000AA 6D000037 A
 689 01 000AB 11C40000 X
 690 01 000AC 683000B0

KIER15

GNAME

DEFAULTGACN EQU

CHKGNAME EQU

BE KIER15
 BDR,7 8=2
 B KEYERR
 EQU *
 CI,2 MING
 BL KEYERR
 LW,9 6
 LW,6 2
 BAL,7 GETUSER#
 B KEYERR
 LW,6 9
 BAL,11 TIRUE
 B KEYINR
 EQU *
 LW,12 KPLB,7
 LW,13 KPLB+1,7
 SLD,12 8
 LW,2 KFL,7
 CI,2 7
 BG KEYERR
 STB,2 12
 LD,14 SYSACCT
 BAL,11 GKIFLD
 LW,2 KFL,7
 BEZ DEFAULTGACN
 CI,2 8
 BG KEYERR
 CI,8 X'15'
 BNE KEYERR
 LW,14 KPLB,7
 LW,15 KPLB+1,7
 EQU *
 LI,2 MAXG
 DISABLE
 CD,12 SIGJOBTL,2
 BE CHKGACN

DONT ZAP KEYN,ALLOCAT,RBBAT

GET ACTIVE USER #

REPORT ERROR OR ABORT EVENT

GHOST NAME

MAKE ROOM FOR COUNT

COUNT

GHOST NAMES MUST BE 7 OR LESS

TEXTC

ASSUME ISYS

GET ACCOUNT

COUNT

USE DEFAULT

ACCOUNT MUST BE 8 OR LESS

CR

ACCOUNT

SIGJOBTL SIZE

MATCH; CHECK ACCOUNT

H01 17:42 SEP 08, 1975

695		01 000AD	
696	01	000AD	642000AB
697	01	000AE	6D000027 A
698	01	000AF	68000066
699		01 000B0	
700	01	000B0	11E40000 X
701	01	000B1	693000AD
702	01	000B2	72240000 X
703	01	000B3	6D000027 A
704	01	000B4	6800008F

CONTUGSRCH	EQU
	BDR,2
	ENABLE
	B
CHKGACN	EQU
	CD,14
	BNE
	LB,2
	ENABLE
	B

\$
CHKGNAME
KEYERR
\$
SIGJOBACN,2
CONTUGSRCH
SBIGJOBUN,2
KIER15

NO MATCH; CONTINUE

NO SUCH GHOST

WRONG ACCOUNT; CONTINUE SEARCH
ID

H01 17:42 SEP 08, 1975

705
706 01 000B5
707
708
709
710
711
712
713
714
715 01 000B5 22000000 A
716 01 000B6 6AB00000 X
717 01 000B7 6800006D

```

PAGE
KISTART EQU $
*****
*F* NAME: KISTART
*F*
*F* PURPOSE: TO PROCESS THE 'START' AND 'S' KEYINS.
*F*
*F* DESCRIPTION: CALLS T;BTSCHED TO GOOSE RBBAT.
*****
*
LI,RO 0
BAL,11 T;BTSCHED
B KEYINR EXIT

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21*
22*

01 000B8
01 000B9
01 000BA
01 000BB
01 000BC
01 000BC

128000BC
9580004E A
22100001 A
8E82004E A
0040006E N
10000000

PAGE EQU \$
KIDELT EQU \$

F NAME: KIDELT
F PURPOSE: TO DRIVE TO EXECUTIVE DELTA VIA AN OPERATOR KEYIN
F DESCRIPTION: SIMULATES AN EXU OF X'4E' WITH THE RETURN GOING
F TO KEYINR.

*
LD,R8 DLTPSD
STD,R8 *X'4E' SIMULATE AN XPSD INSTRUCTION
SINCE DELTA WILL TAMPER WITH IT
*
LI,R1 1
LP\$D,8 *X'4E',R1 ***GO TO DELTA***
*
*
*
BUND 8
IPSD (IA,KEYINR+1),(WK,1),MAP,MASTER DELTA WILL DECREMEN
INSTRUCTION ADR

H01 17:42 SEP 08, 1975

THIS CODE PROCESSES THE 'TASK'

719
742 01 000RE

KIGJOB PAGE EQU \$

743
744
745
746
747
748
749
750
751

F NAME: KIGJOB
F PURPOSE: TO PROCESS THE 'GJOB' KEYIN.
F DESCRIPTION: VALIDATES THE GHOST JOB NAME/ACCOUNT/RESOURCE AS
F SPECIFIED AND CALLS T:GJOBSTRT OR T:GJOBRR DEPENDING
F UPON THE FORMAT OF THE KEYIN.

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19*
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21*
22*
23*

D NAME: KIGJOB
D CALL: KEYIN FORMAT: GJOB NAME|ACCOUNT|RESOURCE|NAME|
D INPUT: R7 = ADR OF KEYIN PARAMETER LIST
D SVIRSIZ
D SHIRNM
D REGISTERS: ALL ARE VULNERABLE
D INTERFACE: GKIFLD, T:GJOBRR, T:GJOBSTRT, @QUEUE
D ENVIRONMENT: MASTER/MAPPED
D DESCRIPTION: GKIFLD IS CALLED TO OBTAIN THE NAME (MUST BE <= 7 CHARACTERS AND != 'KEYIN'). IF THE NAME'S DELIMITER IS A CARRIAGE RETURN, T:GJOBSTRT IS CALLED. OTHERWISE GKIFLD IS CALLED TO OBTAIN THE ACCOUNT AND/OR RESOURCE AND T:GJOBRR IS CALLED. IF THE GHOST JOB WAS ALREADY ACTIVE, OR WE WOKE HIM UP, OR THE GHOST JOB TABLES WERE FULL, AN APPROPRIATE MESSAGE IS SENT TO THE OPERATOR VIA @QUEUE.

752
753 01 000RE 331E0000 A
754 01 000RF F3F00007 A

MTW,1 0,R7 REMOVE '!' AS DELIMITER
MTB,-1 *R7

HO1	17142	SEP 08,	'75						
755	01	000C0	6AB00050			BAL,11	GKIFLD	GET TASK NAME	
756	01	000C1	69800066	KIGJOB1		BCS,8	KEYERR	ERROR RETURN TO USER	
757				*					
758	01	000C2	32AE0004			LW,10	KFL,7	#	
759	01	000C3	21A00007			CI,10	7	NAME:7	
760	01	000C4	69200066			BG	KEYERR		
761				*					
762	01	000C5	320E0005			LW,0	KPLB,7	GET TASK NAME FROM BUFFER	
763	01	000C6	321E0006			LW,1	KPLB+1,7		
764	01	000C7	1100000A			CD,0	KEYIND		
765	01	000C8	68300066			BE	KEYERR	DONT START OURSELF	
766	01	000C9	25000178			SLD,RO	=8	POSITION FOR BYTE	
767	01	000CA	75A00000			STB,R10	RO	COUNT INSERTION	
768	01	000CB	21800015			CI,R8	X151	FIELD TERMINATE ON NEW LINE	
769	01	000CC	683000EA			BE	KIGJOB5	YES - GO START :SYS GJOB	
770	01	000CD	02200020			PUSH	2,RO	SAVE THE GJOB NAME	
	01	000CE	08000000						
771	01	000CF	2180004B			CI,R8	1,1	IS THE DELIM A DOT	
772	01	000D0	683000E2			BE	KIGJOB4	YEP	
773	01	000D1	12C00000			LD,R12	DOUBLEZERO	ZAP ACN FIELD	
774	01	000D2	2180006B	KIGJOB2		CI,R8	1,1	WANTS TO PASS A RESOURCE NAME	
775	01	000D3	69300066			BNE	KEYERR	CANT FIGURE OUT WHAT TO DO HERE..	
776	01	000D4	6AB00050			BAL,R11	GKIFLD	GET RESOURCE FIELD	
777	01	000D5	69800066			BCS,8	KEYERR	ERROR	
778	01	000D6	32AE0005			LW,R10	KPLB,R7	GET RESOURCE NAME	
779	01	000D7	25A00470			SAS,R10	=16	POSITION FOR SEARCH	
1*	01	000D8	22200000			LI,R2	SVIRSIZ		
781	01	000D9	51A40000			CH,R10	SHIRNM,R2	FIND NAME IN TABLES	
782	01	000DA	683000DD			BE	KIGJOB3		
783	01	000DB	642000D9			BDR,R2	=2		
784	01	000DC	68000066			B	KEYERR	INVALID INPUT	
785	01	000DD	02200020	KIGJOB3		EGU	\$		
786	01	000DD	02200020			PULL	2,RO	RESTORE GJOB TEXT NAME FROM STACK	
	01	000DE	0A000000						
787	01	000DF	6AA00000			BAL,R10	T1GJOB8	AND START THE GHOST UP	
788	01	000E0	68F0006D			BCR,15	KEYINR	NORMAL RETURN	
789	01	000E1	680000EC			B	KIGJOB6		

```

790
791
792
793      01 000F2
794 01 000E2 6AB00050
795 01 000E3 69800066
796 01 000E4 02200020 A
797 01 000E5 2ACE0005 A
798 01 000E6 22200000 A
799 01 000E7 21800015 A
800 01 000E8 683000DD
801 01 000E9 680000D2
802      01 000FA
803 01 000EA 6AA00000 X
804 01 000EB 68F0006D
805 01 000EC 7400000A A
806 01 000ED 221000F9
807 01 000EE 22700000 A
808 01 000EF 7020000A A
809 01 000F0 692000F7
810 01 000F1 22100100
811 01 000F2 7020000A A
812 01 000F3 694000F7
813 01 000F4 22100105
814 01 000F5 7020000A A
815 01 000F6 6880006D
816 01 000F7 6AB00000 X

```

```

*
*      GATHER ACCOUNT NUMBER PASSED
*
KIGJOB4 EQU          $
BAL,R11  GKIFLD      GET FIELD
BCS,8    KEYERR      ERROR RETURN
LCI      2
LM,R12   KPLB,R7     GET ACCOUNT NUMBER FROM BUFFER
LI,R2    0           RESET INDEX FLAG FOR TIOV
CI,R8    X'15'       FIELD TERMINATE ON NEWLINE
BE       KIGJOB3     YES = GO START THE GHOST
B        KIGJOB2     NO = GO EXAMINE FOR RESOUCE NAME

KIGJOB5 EQU          $
BAL,R10  TIGJOBSTRT  START ,SYS GHOST JOB
BCR,15   KEYINR
KIGJOB6 STCF        R10  SAVE CONDITION CODES FROM TIOV
LI,R1    GJOBUSY    ASSUMME GHOST ALREADY ACTIVE
LI,R7    0          NO DCT TO TYPE OUT
LC       R10        TEST ASSUMPTION
BCS,2    KIGJOB7    TRUE
LI,R1    GJOBWAKE   MAYBE WE WOKE IT UP THEN
LC       R10        DID WE
BCS,4    KIGJOB7    YES
LI,R1    GJOBFULL   ONLY ONE LEFT
LC       R10        ARE TH TABLES FULL
BCR,8    KEYINR     DONT KNOW WHAT TO SAY
KIGJOB7 BAL,R11    0CQUEUE  WRITE OUT MESSAGE

```

```

1*
2*
3*
4*
5*
6*
7*
8*
9*
10*

```

```

*****
*0*      MESSAGE: TASK CURRENTLY ACTIVE
*0*
*0*      MEANING: GJOB KEYIN REFERENCED A CURRENTLY ACTIVE GHOST JOB
*0*
*0*      ACTION: NONE
*0*****
*0*      MESSAGE: TASK AWAKENED
*0*
*0*      MEANING: GJOB KEYIN REFERENCED A SLEEPING GHOST JOB

```

```

11*
12*
13*
14*
15*
16*
17*
18*
19*
20*
21*
818 01 000F8 6800006D
819 01 000F9
820 01 000F9 1 B A
      01 000F9 1 05 A
      01 000F9 2 5C A
      01 000F9 3 5C A
821 01 000FA F3C1E2D2 A
      01 000FB 40C3E4D9 A
      01 000FC D9C5D5E3 A
      01 000FD D3E840C1 A
      01 000FE C3E3C9E5 A
      01 000FF C5404040 A
822 0000001B
823 01 00100
824 01 00100 1 13 A
      01 00100 1 05 A
      01 00100 2 5C A
      01 00100 3 5C A
825 01 00101 F3C1E2D2 A
      01 00102 40C1E6C1 A
      01 00103 D2C5D5C5 A
      01 00104 C4404040 A
826 00000013
827 01 00105
828 01 00105 1 13 A
      01 00105 1 05 A

```

```

*0*
*0* ACTION: NONE
*0*****
*0* MESSAGE: TASK TABLES FULL
*0*
*0* MEANING: GJOB KEYIN ATTEMPTED WHEN THE MAXIMUM POSSIBLE #
*0* OF GHOST JOBS WERE ALREADY ACTIVE.
*0*
*0* ACTION: RE-TRY THE KEYIN LATER
*0*****
*
GJOBUSY B KEYINR
EQU $
DATA,1 GJOBUC,X'05',X'5C',X'5C'

TEXT 'TASK CURRENTLY ACTIVE'

GJOBUC EQU BA($)-BA(GJOBUSY)+1
GJOBWAKE EQU $
DATA,1 GJOBWC,X'05',X'5C',X'5C'

TEXT 'TASK AWAKENED'

GJOBWC EQU BA($)-BA(GJOBWAKE)+1
GJOBFULL EQU $
DATA,1 GJOBFC,X'05',X'5C',X'5C'

```

H01 17:42 SEP 08, 1975

01 00105 2 5C A
01 00105 3 5C A
829 01 00106 F3C1E2D2 A
01 00107 40E3C1C2 A
01 00108 D3C5E240 A
01 00109 C6E4D3D3 A
830 00000013

TEXT TASK TABLES FULL

GJSBFC EQU BA(*)=BA(GJSBFULL)=1

831
833 01 0010A
834
835
836
837
838
839
840
841
842
843
844
845
846 01 0010A 225FFFFE A
847 01 0010B 35500000 X
848 01 0010C 22500000 N
849 01 0010D 22600000 N
850 01 0010E
851 01 0010E 720A0000 X
853 01 0010F 21000000 N
854 01 00110 68300116
855
856 01 00111 215FFFFF N
857 01 00112 68200116
858
859 01 00113 09500000 N
860 01 00114 6AB00000 X
861 01 00115 08500000 N
862
863 01 00116
864 01 00116 6450010D
865
866 01 00117
867
868
869
870

PAGE
KIFDOWN EQU \$

F NAME: KIFDOWN
F
F PURPOSE: TO PROCESS THE 'ZAP' KEYIN.
F
F DESCRIPTION: FORCES ALL USERS OFF BY REPORTING AN 'ABRT' EVEN
F ON EACH ACTIVE USER (EXCEPT SYSTEM GHOSTS); SETS
F SIBUAYS AND SIBUAYS TO ZERO; SIMULATES AN 'RBX' KEYI
F IF REMOTE BATCH IS ACTIVE AND SIMULATES AN 'XCPU'
F KEYIN IF THIS IS A MULTI-PROCESSING SYSTEM.

*
LI,5 =2
STW,5 GOODNGT ***SAVE SYMB FILES
LI,5 SMUIS
LI,6 E,ABRT ABORT CODE
ZAP10 EQU \$
LB,0 UB:US,5
CI,0 SNULL
BE ZAP20
*
CI,5 MING=1 (SMK) CHECK FOR KEYN,ALLOCAT,RBBAT
BLE ZAP20 (DON'T WANT TO ZAP EITHER)
*
PUSH 5
BAL,11 T,RUE ABORT HIM
PULL 5
*
ZAP20 EQU \$
BDR,5 ZAP10-1
B KIGDOWN FALL THRU TO 'OFF' KEYIN
KIGDOWN EQU \$

F NAME: KIGDOWN
F

871
 872
 873
 874
 875
 876
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*
 14*
 15*
 16*
 17*
 18*
 19*
 20*
 21*
 22*
 23*
 24*
 25*
 877
 878 01 00117 22000000 A
 879 01 00118 35000000 X
 880 01 00119 35000000 X
 881 01 0011A 22100000 N
 882 01 0011B 6830011E

```

*F*      PURPOSE: TO PROCESS THE 'OFF' KEYIN.
*F*
*F*      DESCRIPTION: ZERES S:BUAIS AND S:BUAIS; SIMULATES AN 'RBX'
*F*      KEYIN IF REMOTE BATCH IS ACTIVE AND SIMULATES AN
*F*      'XCPU' KEYIN IF THIS IS A MULTI-PROCESSING SYSTEM.
*****
*D*      NAME:      KIGDOWN
*D*
*D*      ENTRY:     KIFDOWN
*D*
*D*      CALL:      KEYIN FORMAT:  OFF      (KIGDOWN)
*D*                                     ZAP      (KIFDOWN)
*D*
*D*      OUTPUT:    S:BUAIS = 0
*D*                  S:BUAIS = 0
*D*                  GOODNGT = 2 (IF 'ZAP')
*D*
*D*      REGISTERS: ALL ARE VULNERABLE
*D*
*D*      INTERFACE: TRUE
*D*
*D*      ENVIRONMENT: MASTER/MAPPED
*D*
*D*      DESCRIPTION: S:BUAIS & S:BUAIS ARE SET TO ZERO; 'RBX' AND
*D*                  'XCPU' KEYINS ARE SIMULATED IF APPROPRIATE;
*D*                  ADDITIONALLY, IF WE ARE PROCESSING A 'ZAP' KEYIN,
*D*                  ALL USERS ARE ABORTED VIA TRUE (E:ABRT), AND
*D*                  GOODNGT IS SET TO '2' AS A FLAG FOR SCHED TO
*D*                  SCREECH AS SOON AS ALL USERS EXCEPT ALLOCAT & RBBAT
*D*                  ARE OFF AND ALL SYMBIONT FILES HAVE BEEN PROCESSED.
*****
*
    LI,0      0
    STW,0     S:BUAIS
    STW,0     S:BUAIS
    LI,1      NSCPU
    BEZ      *+3
    
```

H01 17:42 SEP 08, 1975
883 01 0011C 22300001 A
884 01 0011D 6A0001B1
885 00000001
886 01 0011E 22300000 N
887 01 0011F 6930056F
888
889 01 00120 6800006D

LI,3 1
BAL,0 KXCPU2
DB RBCODE
LI,3 OFFBIT
BNEZ KRBX1
FIN
B KEYINR

71
IF RB SYSTEM ZAP INCLUDES IMPLICIT
RBX,
!
!
IF NOT EXIT

890
 892 01 00121
 893
 894
 895
 896
 897
 898
 899
 900
 901
 902 01 00121 33100000 X
 903 01 00122 68000127

PAGE EQU *
 KIGBUP EQU *

 F NAME: KIGBUP
 F
 F PURPOSE: TO PROCESS THE '0NB' KEYIN
 F
 F DESCRIPTION: SETS S:BUAIS TO KEYED-IN VALUE AS LONG AS IT
 F DOES NOT CAUSE S:BUAIS+S:BUAIS+S:BUAIS TO EXCEED SMUI

 *
 MTW,1 JICCBUF
 B KIGB

904
 905
 906
 907 01 00123

*
 *
 *
 KIGUP EQU *

 F NAME: KIGUP
 F
 F PURPOSE: TO PROCESS THE '0N' KEYIN
 F
 F DESCRIPTION: VERIFIES THAT CBC IS PRESENT THEN SETS S:BUAIS T
 F KEYED-IN VALUE AS LONG AS IT DOES NOT CAUSE
 F S:BUAIS+S:BUAIS+S:BUAIS TO EXCEED SMUIS

916
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*

D NAME: KIGUP
 D
 D ENTRY: KIGBUP
 D
 D CALL: KEYIN FORMAT: 0N | X (X = DECIMAL VALUE)
 D 0NB |
 D
 D
 D INPUT R7 = ADR OF KEYIN PARAMETER LIST
 D S:BUAIS, S:BUAIS, S:BUAIS
 D

12*
13*
14*
15*
16*
17*
18*
19*
20*
21*
22*
23*
24*

```
*D*      OUTPUT:  SIBUAIS = X   (IF ONB)
*D*      SIBUAIS = X   (IF ON)

*D*      REGISTERS:  ALL ARE VULNERABLE

*D*      INTERFACE:  GKIFLD

*D*      ENVIRONMENT:  MASTER/MAPPED

*D*      DESCRIPTION:  VERIFIES THAT COC IS PRESENT (ON: ONLY) AND
*D*      THEN SETS S:BUAIS (IF ONB) OR S:BUAIS (IF ON)
*D*      TO THE SPECIFIED VALUE.
```

917						
918	01	00123	22100000	N	LI,R1	COC SEE IF NON-COC SYSTEM
919	01	00124	68300066		BEZ	KEYERR B/NOT ON-LINE SYSTEM
920	01	00125	22100000	A	LI,1	0
921	01	00126	25100000	X	STW,1	JICCBUF
922	01	00127			RES	0
923						
924	01	00127	6AB00050		BAL,11	GKIFLD GET # ON-LINE USERS SPECIFIED
925	01	00128	69800066		BCS,8	KEYERR
926						
927	01	00129	320E0005	A	LW,0	KPLB,7 GET # ON-LINE USERS SPECIFIED
928	01	0012A	22100000	A	LI,1	0
929	01	0012B	225FFFFC	A	LI,5	=4
930	01	0012C	723A0001	A	LB,3	1,5
931	01	0012D	203FFF10	A	AI,3	'X'FO'
932	01	0012E	68100132		BGEZ	#+4
933	01	0012F	203000B0	A	AI,3	'X'40'+X'FO'
934	01	00130	68300135		BEZ	DCV30+1
935	01	00131	68000066		B	KEYERR
936	01	00132	2310000A	A	MI,1	10
937	01	00133	30100003	A	AW,1	3
938	01	00134	6550012C		BIR,5	DCV20
939						
940	01	00135	22200000	X	LW,2	SIBUAIS TOT BAT AND ON LINE USERS

H01 17:42 SEP 08, '75

941	01	00136	33000000	X
942	01	00137	68300139	
943	01	00138	32200000	X
944	01	00139	30200001	A
945	01	0013A	30200000	X
946	01	0013B	21200000	N
947	01	0013C	69200066	
948	01	0013D	33000000	X
1*	01	0013E	68300143	
2*	01	0013F	91100000	N
3*	01	00140	69200066	
950	01	00141	35100000	X
951	01	00142	68000144	
1*	01	00143	35100000	X
955	01	00144	6800006D	

MTW,0	J;CCBUF
BEZ	*+2
LW,2	S;BUAIS
AW,2	1
AW,2	SIGUAIS
CI,2	SMUIS
BG	KEYERR
MTW,0	J;CCBUF
BEZ	KIG1
CI,1	LPART
BG	KEYERR
STW,1	S;BUAIS
B	*+2
STW,1	SIGUAIS
B	KEYINR

KIG1

ALLOWED MAY NOT EXCEED TOTAL

956
 957 01 00145
 958
 959
 960
 961
 962
 963
 964
 965
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*
 14*
 15*
 16*
 17*
 18*
 19*
 966
 967 01 00145 21800040 A
 968 01 00146 68300148
 969 01 00147 68000066
 970 01 00148
 971 01 00148 6AB00050
 972 01 00149 69800066
 973 01 0014A 6AB00000 X

```

KDIAG PAGE
RES 0
*****
*F* NAME: KDIAG
*F*
*F* PURPOSE: TO PROCESS THE 'DIAG' KEYIN
*F*
*F* DESCRIPTION: STORES THE USER # ASSOCIATED WITH THE SPECIFIED
*F* SYSID INTO DID
*****
*D* NAME: KDIAG
*D*
*D* CALL: KEYIN FORMAT: DIAG SYSID
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D*
*D* OUTPUT: DID = USER # OF SPECIFIED USER
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, CVSYSID, GETUSER#
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: CALLS GKIFLD TO GET THE SPECIFIED SYSID, CALLS
*D* CVSYSID TO CONVERT IT FROM EBCDIC TO HEX; CALLS
*D* GETUSER# TO GET CORRESPONDING USER #, AND FINALLY
*D* STORES USER # INTO THE DIAGNOSTIC ID CELL (DID).
*****
*
CI,8 1 1 CHECK FOR LEGAL DELIMITER
BE KDIAG1 LEGAL
B KEYERR NOT LEGAL, ERROR
KDIAG1 RES 0
BAL,11 GKIFLD GET ID
BCS,8 KEYERR
BAL,11 CVSYSID CONVERT TO HEX IN R2
    
```

H01 17:42 SEP 08, '75

974	01	0014B	69800066	
975	01	0014C	32600002	A
976	01	0014D	6A700000	X
977	01	0014E	68000066	
978	01	0014F	35500000	X
980	01	00150	6800006D	

BCS,8	KEYERR
LW,R6	R2
BAL,R7	GETUSER#
B	KEYERR
STW,R5	DID
B	KEYINR

```

**** GET USER #
      ABN RETURN, NO FND
      SAVE B,G,OR B USER #
      NORMAL EXIT

```

981
982 01 00151

983
984
985
986
987
1*
2*
3*
4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*
15*
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22*
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26*
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28*
29*
30*

```

PAGE
KISEND EQU $
*****
*F* NAME: KISEND
*F*
*F* PURPOSE: TO PROCESS THE 'SEND' KEYIN
*F*
*F* DESCRIPTION: INITIATES THE PIGEON GHOST WHICH WILL TRANSMIT
*F* THE MESSAGE TO ALL USERS OR TO A SPECIFIC USER AS
*F* INDICATED.
*****
*D* NAME: KISEND
*D*
*D* CALL: KEYIN FORMAT: SEND, I ID | MESSAGE
*D* I ALL |
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D* C0C
*D*
*D* OUTPUT: PUTS THE PIGEON GHOST INTO EXECUTION IF THERE IS ANY
*D* MESSAGE TO TRANSMIT; IF 'ALL' WAS SPECIFIED, A
*D* 'HEADING' KEYIN IS SIMULATED.
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, TIGJOBSTR, KIN0HDR, KIMVHDR
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: IF THIS IS A TIME-SHARING SYSTEM, AND A MESSAGE
*D* WAS SPECIFIED, TIGJOBSTR IS CALLED TO INITIATE THE
*D* PIGEON. ADDITIONALLY, IF 'ALL' WAS SPECIFIED, KIMVHD
*D* IS CALLED TO SIMULATE A 'HEADING' KEYIN.
*****
*
LI,R1 C0C IS THIS A T/S SYSTEM
BEZ KEYERR NB

```

01 00151 22100000 N
01 00152 68300066

17142 SEP 08, 1975

31*	01	00153	2180006B	A	CI,R8	C'I	CHECK SYNTAX
32*	01	00154	69300066		BNE	KEYERR	ERROR
33*	01	00155	6AB00050		BAL,R11	GKIFLD	GET ID/'ALL'
34*	01	00156	69800066		BCS,8	KEYERR	
35*	01	00157	321E0005	A	LW,R1	KPLB,R7	
36*	01	00158	22200000	A	LI,R2	0	INITIALIZE FLAG; ASSUME ID
37*	01	00159	31100607		CW,R1	'C'ALL'	WAS 'ALL' SPECIFIED
38*	01	0015A	6930015C		BNE	KIS1	NO
39*	01	0015B	22200001	A	LI,R2	1	YES...RE-INITIALIZE FLAG
40*							
41*	01	0015C	21800015	A	KIS1	J	
42*	01	0015D	68340164		CI,R8	X'15'	IS DELIMITER A 'CR'
43*	01	0015E	09200000	N	BE	KISTV1,R2	YES...TAKE APPROPRIATE ACTION
44*	01	0015F	12000168		PUSH	R2	NO...SAVE ID/'ALL' FLAG
45*	01	00160	6AA00000	X	LD,R0	TPIGEON	TEXTC: PIGEON
46*	01	00161	69F00068		BAL,R10	TIGJOBSTRY	START UP PIGEON
47*					BCS,15	KEYERR1	LATER! IF PIGEON WAS ALREADY ACTIV
48*	01	00162	08200000	N	*		OR WE WERE UNABLE TO START IT UP,
49*	01	00163	68040166		PULL	R2	GET ID/'ALL' FLAG
50*					B	KISTV2,R2	CONTINUE
51*					*		
52*					*		
53*		01 00164			*		
54*	01	00164	6800006D		KISTV1	EQU	
55*	01	00165	68000179		B	KEYINR	IF ID...MERELY EXIT
56*					B	KINQHDR	IF 'ALL'...ZAP C0CMSS
57*		01 00166			*		
58*	01	00166	6800006D		KISTV2	EQU	
59*	01	00167	6800016E		B	KEYINR	IF ID...EXIT
60*					B	KIMVHDR	IF 'ALL'...MOVE MESSAGE TO C0CMSS
61*	01	00168	06D7C9C7	A	BOUND	B	
	01	00169	25D6D540	A	TPIGEON	TEXTC	'PIGEON'

62*
63* 01 0016A
64*
65*
66*
67*
68*
69*
70*
71*
72*
73*
74*
75*
76*
77*
78*
79*
80*
81*
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85*
86*
87*
88*
89*
90*
91*
92* 01 0016A 22100000 N
93* 01 0016B 68300066
94* 01 0016C 21800015 A
95* 01 0016D 68300179
96*
97* 01 0016E 222FFFC9 A
98* 01 0016F 321E0001 A

```

PAGE
KIHEAD EQU 8
*****
*F* NAME: KIHEAD
*F*
*F* PURPOSE: TO PROCESS THE 'HEADING' KEYIN
*F*
*F* DESCRIPTION: MOVES THE MESSAGE TEXT TO COCMES FOR SUBSEQUENT
*F* TRANSMITTAL TO ALL ONLINE USERS BY THE COC ROUTINES I
*F* THE TOP OF PAGE HEADING.
*****
*D* NAME: KIHEAD
*D*
*D* CALL: KEYIN FORMAT: HEADING (MESSAGE)
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D* COC, KEYINBUF
*D*
*D* OUTPUT: COCMES
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: IF NO MESSAGE WAS PROVIDED, BYTE 0 OF COCMES
*D* IS SET TO 0, OTHERWISE, UP TO 55 CHARACTERS OF THE
*D* MESSAGE ARE MOVED FROM KEYINBUF TO COCMES WITH BYTE
*D* 0 OF COCMES SET AS THE BYTE COUNT.
*****
*
LI,R1 COC IS THIS A T/S SYSTEM
BEZ KEYERR NO
CI,R8 X'15' IS DELIMITER A ICR!
BE KINHDR YES,,,ZAP COCMES
KIMVHDR J ENTER HERE FROM 'SEND' KEYIN ALSO
LI,R2 =55 SET UP INDEX FOR COCMES
LW,R1 KCCP,R7 GET CURRENT POSITION IN KEYINBUF

```


H01 17:42 SEP 08, 1975

99*
100* 01 00170 72020000 X
101* 01 00171 21000015 A
102* 01 00172 68300176
103* 01 00173 7504000E N
104* 01 00174 20100001 A
105* 01 00175 65200170
106*
107* 01 00176 20200037 A
108* 01 00177 75200000 X
109* 01 00178 6800006D
110*
111*
112*
113*
114* 01 00179 22000000 A
115* 01 0017A 75000000 X
116* 01 0017B 6800006D

```

KI#1      J
          LB,R0  KEYINBUF,R1  GET CHARACTER FROM MESSAGE
          CI,R0  X'15'      IS IT 'CR'
          BE     KI#2      YES...QUIT
          STB,R0 COCMESS+(56/4),R2 PUT IT AWAY IN COCMESS
          AI,R1  1          INCREMENT KEYINBUF INDEX
          BIR,R2 KI#1      GO GET NEXT CHARACTER

KI#2      J
          AI,R2  55        CALCULATE ACTUAL MESSAGE SIZE
          STB,R2 COCMESS   INITIALIZE BYTE CNT
          B      KEYINR    EXIT

*
*
*
KIN#HDR   J
          LI,R0  0          DELETE CURRENT MESSAGE
          STB,R0 COCMESS   ZAP BYTE 0
          B      KEYINR

```

1116
1119 01 0017C

1120
1121
1122
1123
1124
1125
1126
1*
2*
3*
4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*
15*
16*
17*

```

PAGE
KMCSND EQU $
*****
*F* NAME: KMCSND
*F*
*F* PURPOSE: TO PROCESS THE 'MCSND' KEYIN
*F*
*F* DESCRIPTION: USES NEWQ TO SEND THE MESSAGE TO THE R.A.S.
*****
*D* NAME: KMCSND
*D*
*D* CALL: KEYIN FORMAT: MCSND TEXT
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
          KEYINBUF
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: NEWQ
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: AFTER VERIFYING THAT WE ARE RUNNING ON A XERBX-
          S60, A CALL TO NEWQ IS MADE TO TRANSMIT THE MESSAGE
          IN KEYINBUF TO THE REMOTE ASSIST STATION.
*****

```

```

1127
1128 01 0017C 70200000 X
      01 0017D 69C00066
1129 01 0017E 22C000FF A
1130 01 0017F 4BC00000 X
1131 01 00180 49C00608
1132 01 00181 22D00000 N
1133 01 00182 30DE0001 A
1134 01 00183 324E0001 A
1135 01 00184
1136 01 00184 72080000 X

```

```

BIF,S7S9 KEYERR
LI,12 XIFF; DCT MASK
AND,12 RASID0L DCTX
OR,12 =X'1FF0A00' FC,PRI,NRT
LI,13 BA(KEYINBUF) BUF
AW,13 KCCP,R7 CURRENT POSITION
LW,R4 KCCP,R7 CURRENT POSITION
KMCSND1 EQU $
LB,R0 KEYINBUF,R4

```

MO1 17:42 SEP 08, 175

1137 01 00185 21000015 A
 1138 01 00186 68300189
 1139 01 00187 20400001 A
 1140 01 00188 68000184
 1141 01 00189
 1142 01 00189 384E0001 A
 1143 01 0018A 20400002 A
 1144 01 0018B 32E00004 A
 1145 01 0018C 22F00000 A
 1146 01 0018D 325E0001 A
 1147 01 0018E 205FFFFFF A
 1148 01 0018F 750A0000 X
 1149 01 00190 22000000 A
 1150 01 00191 6AB00000 X
 1151 01 00192 02000000 A
 1152 01 00193 6800006D

KMCSND2 CI,R0 X'15'
 BE KMCSND2
 AI,R4 1
 B KMCSND1
 EQU \$
 SW,R4 KCCP,R7
 AI,4 2
 LW,14 #
 LI,15 0
 LW,R5 KCCP,R7
 AI,R5 =1
 STB,R0 KEYINRUF,R5
 LI,0 0
 BAL,11 NEWG
 NOP
 B KEYINR

CR
 MSG SIZE
 SIZE
 NO END ACTION

1153
 1154 01 00194
 1155
 1156
 1157
 1158
 1159
 1160
 1161
 1162
 1163
 1164
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*
 14*
 15*
 16*
 17*
 18*
 19*
 1165
 1166 01 00194 22B00000 N
 1167 01 00195 68300066
 1168 01 00196 6AB00050
 1169 01 00197 69800066
 1170 01 00198 22B001A0

```

PAGE
KSCPU EQU 6
*****
*F* NAME: KSCPU
*F*
*F* PURPOSE: TO PROCESS THE 'SCPU' KEYIN.
*F*
*F* DESCRIPTION: IN A MULTI-PROCESSING SYSTEM, A SLAVE CPU IS
*F* STARTED; THE STOP-BIT IS RESET AND THE START-BIT SET
*F* IN SB:INIT) SIMPKYN IS INCREMENTED (RE-ENTRANCY
*F* COUNTER) AND THE MOOSE IS GOOSE.
*****
*D* NAME: KSCPU
*D*
*D* CALL: KEYIN FORMAT: SCPU ID
*D*
*D* INPUT: R7 - ADR OF KEYIN PARAMETER LIST
*D*
*D* OUTPUT: SB:INIT, SIMPKYN
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, TIGJOBSTR
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: IN A MULTI-PROCESSING SYSTEM A SLAVE CPU IS
*D* STARTED BY SETTING THE START-BIT IN SB:INIT FOR THE
*D* SPECIFIED CPU AND CALLING TIGJOBSTR TO INITIATE
*D* THE MOOSE GHOST JOB.
*****
*
LI,11 NSCPU IS THIS A SLAVE CPU SYSTEM
BEZ KEYERR NO,ERROR
BAL,11 GKIFLD GET ID
BCS,8 KEYERR ERROR
LI,11 KSCPU2
    
```

H01 17:42 SEP 08, '75

1171	01	00199	323E0005	A
1172	01	0019A	25300068	A
1173	01	0019B	48300004	N
1174	01	0019C	68300066	
1175	01	0019D	21300000	N
1176	01	0019E	69200066	
1177	01	0019F	F800000B	A
1180	01	001A0	6D000037	A
1181	01	001A1	72B60000	X
1182	01	001A2	48B00000	X
1183	01	001A3	20B00001	A
1184	01	001A4	75B60000	X
1185	01	001A5	6D000027	A
1186	01	001A6	33100000	X
1187	01	001A7	1200000C	
1188	01	001A8	6AA00000	X
1189	01	001A9	6800006D	

KSCPU1	LW,3	KPLB,R7
	SLS,3	=24
	AND,R3	XF
	BEZ	KEYERR
	CI,R3	NSCPU
	BG	KEYERR
	B	*11
KSCPU2	EQU	*
	DISABLE	
	LB,11	SBIINIT,R3
	AND,11	XFC
	AI,R11	STARTBIT
	STB,11	SBIINIT,R3
	ENABLE	
	MTW,1	SIMPKN
	LD,0	TXMOOSE
	BAL,10	TIGJOBSTR
	B	KEYINR

TBB HIGH

GET ALL BITS BUT START/STOP
 SET START
 STORE IT

INCREMENT RE-ENTRANCY COUNTER

TRY TO START GHOST

1190
 1191 01 001AA
 1192
 1193
 1194
 1195
 1196
 1197
 1198
 1199
 1200
 1201
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*
 14*
 15*
 16*
 17*
 18*
 19*
 1202
 1203 01 001AA 22B00000 N
 1204 01 001AB 68300066
 1205 01 001AC 6AB00050
 1206 01 001AD 69800066
 1207 01 001AE 22100001 A

```

PAGE
KXCPU EQU *
*****
*F* NAME: KXCPU
*F*
*F* PURPOSE: TO PROCESS THE 'XCPU' KEYIN.
*F*
*F* DESCRIPTION: IN A MULTI-PROCESSING SYSTEM, A SLAVE CPU IS
*F* STOPPED; THE START-BIT IS RESET AND THE STOP-BIT SET
*F* IN SBIINIT; SIMPKYN IS INCREMENTED (RE-ENTRANCY
*F* COUNTER) AND THE MOOSE IS GOOSE.
*****
*D* NAME: KXCPU
*D*
*D* CALL: KEYIN FORMAT: XCPU ID
*D*
*D* INPUT: R7, ADR OF KEYIN PARAMETER LIST
*D*
*D* OUTPUT: SBIINIT, SIMPKYN
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, TIGJOBSTRY
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: IN A MULTI-PROCESSING SYSTEM A SLAVE CPU IS
*D* STOPPED BY SETTING THE STOP-BIT IN
*D* SBIINIT AND CALLING TIGJOBSTRY TO INITIATE THE MOOSE
*D* GHOST JOB.
*****
*
LI,11 NSCPU IS THIS A SLAVE CPU SYSTEM
BFZ KEYERR NO,ERROR
BAL,11 GKIFLD GET N
BCS,8 KEYERR ERROR
LI,1 1 SET FOR INCREMENT
    
```

HO1 17:42 SEP 08, '75

1208 01 001AF 6AB00199
 1211 01 001B0 2200006D
 1* 01 001B1 32B00009
 2* 01 001B2 35B00000 X
 3* 01 001B3 6D000037 A
 1213 01 001B4 72B60000 X
 1214 01 001B5 48B00000 X
 1215 01 001B6 20B00002 A
 1216 01 001B7 75B60000 X
 1217 01 001B8 6D000027 A
 1218 01 001B9 20300001 A
 1* 01 001BA 641001B3
 1220 01 001BB 33100000 X
 1221 01 001BC 09000000 N
 1222 01 001BD 1200000C
 1223 01 001BE 6AA00000 X
 1224 01 001BF 08000000 N
 1225 01 001C0 F8000000 A

KXCPU2
 KXCPU3

BAL,11
 LI,0
 LW,11
 STW,11
 DISABLE
 LB,11
 AND,R11
 AI,11
 STB,11
 ENABLE
 AI,R3
 BDR,1
 MTW,1
 PUSH
 LD,0
 BAL,10
 PULL
 B

KSCPU1
 KEYINR
 NOBRANCH
 SYSTRY
 SBIINIT,R3
 XFC
 STOPBIT
 SBIINIT,R3
 1
 KXCPU3
 SIMPKYN
 0
 TXM00SE
 TIGJOBSTRY
 0
 *0

VALIDATE N
 RETURN ADDRESS
 GET REFLEXIVE BRANCH
 STORE IN SYSTRY
 GET FLAGS
 GET ALL BITS BUT START & STOP
 SET STOP BIT
 STORE VALUE
 INCREMENT INDEX
 DO MORE THAN ONE
 SET RE-ENTRANCY COUNTER

1226
1227 01 001C1

1228
1229
1230
1231
1232
1233

1*
1235

1*
2*
3*
4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*
15*
16*
17*
18*
19*
20*
21*
22*

1236
1237 01 001C1 220001E4
1238 01 001C2 6AB001EE
1239 01 001C3 55200000 X
1240

```

PAGE
EQU *
*****
*K* NAME: KITIME
*K*
*K* PURPOSE: TO PROCESS THE 'TIME' AND 'T' KEYINS.
*K*
*K* DESCRIPTION: VALIDATES INPUT AND STORES 'HHMM' (IN EBCDIC)
*K* INTO THE 1-WD LOCATION 'TIME' & UPDATES CIMSM
*****
*D* NAME: KITIME
*D*
*D* CALL: KEYIN FORMAT: TIME HHMM
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D* 1MIN
*D*
*D* OUTPUT: TIME, CIMSM
*D*
*D* DATA: MAXHRVAL, MAXMINVAL, MSMDAT
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GDTKIVAL
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: CALLS GDTKIVAL TO VALIDATE HH & MM INPUT FIELDS;
*D* THE CELL TIME IS RESET TO THE HHMM VALUES SPECIFIED
*D* (IN EBCDIC). THIS VALUE IS THEN USED TO CALCULATE
*D* THE NEW VALUE FOR CIMSM (2 MS TICS SINCE MIDNIGHT).
*****
*
LI,R0 MAXHRVAL (R0) = MAX. HOUR VALUE
BAL,SR4 GDTKIVAL GET HOUR VALUE
STH,R2 TIME STORE HOUR VALUE
*

```


H01 17:42 SEP 08, '75

```

1241 01 001C4 220001E6
1242 01 001C5 6AB001EE
1243 01 001C6 2230FFFF A
1244 01 001C7 47200000 X
1* 01 001C8 22300000 A
2* 01 001C9 222FFFFC A
3* 01 001CA 6D000037 A
4* 01 001CB 72040001 N
5* 01 001CC 200FFF10 A
6* 01 001CD 30300000 A
7* 01 001CE 573401D9
8* 01 001CF 652001CB
9* 01 001D0 22500032 A
10* 01 001D1 38500000 X
11* 01 001D2 23500258 A
12* 01 001D3 30300005 A
13* 01 001D4 35300000 X
14* 01 001D5 6D000027 A
1245 01 001D6 6800006D
1*
2*
3*
4* 01 001D7 000A0006 A
000A7530

```

T1

```

LI,R0 MAXMINVAL
BAL,SR4 GDTKIVAL
LI,R3 KFFFF
STS,R2 TIME
LI,R3 0
LI,R2 *4
DISABLE
LB,R0 TIME+1,R2
AI,R0 =101
AW,R3 R0
MH,R3 MSMDAT+2,R2
BIR,R2 T1
LI,R5 50
SW,R5 1MIN
MI,R5 600
AW,R3 R5
STW,R3 CIMSM
ENABLE
B KEYINR

```

```

(R0) = MAX. MINUTE VALUE
GET MIN. VALUE

STORE MINUTE VALUE
INITIALIZE ACCUMULATOR
SET UP LOOP

TIME = INHMMI
CONVERT
ACCUMULATE
CONVERT TO TICS
LOOP
CALCULATE DISPL INTO CURRENT MINUTE
*
CONVERT TO TICS
ACCUMULATE
UPDATE TICS SINCE MIDNIGHT

```

```

*
*
*
MSMDAT GEN,16,16,16,16 10,6,10,30000

```

1246
1247 01 001D9

KIDATE PAGE EQU 8

1248 *F* NAME: KIDATE
1249 *F*
1250 *F* PURPOSE: TO PROCESS THE 'DATE' AND 'D' KEYINS.
1251 *F*
1252 *F* DESCRIPTION: VALIDATES INPUT AND STORES 'MMDD' (IN EBCDIC)
1253 *F* INTO LOCATION DATE, AND 'YY' (IN EBCDIC) INTO
1254 *F* LOCATION DATE+1.
1255 *F*
1256 *****

1* *D* NAME: KIDATE
2* *D*
3* *D* CALL: KEYIN FORMAT; DATA MM/DD/YY
4* *D*
5* *D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
6* *D*
7* *D* OUTPUT: DATE
8* *D*
9* *D* DATA: MAXMONVAL, MAXDAYVAL, MAXYRVAL
10* *D*
11* *D* REGISTERS: ALL ARE VULNERABLE
12* *D*
13* *D* INTERFACE: GDTKIVAL
14* *D*
15* *D* ENVIRONMENT: MASTER/MAPPED
16* *D*
17* *D* DESCRIPTION: CALLS GDTKIVAL TO VALIDATE MM, DD, & YY INPUT
18* *D* FIELDS; THE DOUBLEWORD CELL DATE IS RESET TO THE
19* *D* EBCDIC VALUES SPECIFIED (MMDD YY)
20* *****

1257				
1258	01 001D9	220001E8	LI,R0	MAXMONVAL (R0) = MAX. MONTH VALUE
1259	01 001DA	6AB001EE	BAL,SR4	GDTKIVAL GET MONTH VALUE
1260	01 001DB	55200000 X	STH,R2	DATE STORE MONTH VALUE
1261				
1262	01 001DC	220001EA	LI,R0	MAXDAYVAL (R0) = MAX. DAY VALUE

HO1 17:42 SEP 08, '75

1263	01	001DD	6AB001EE	BAL,SR4	QDTKIVAL	GET DAY VALUE
1264	01	001DE	2230FFFF A	LI,R3	KFFFF	
1265	01	001DF	47200000 X	STS,R2	DATE	STORE DAY VALUE
1266				*		
1267	01	001E0	220001EC	LI,R0	MAXYRVAL	(R0) = MAX, YEAR VALUE
1268	01	001E1	6AB001EE	BAL,SR4	QDTKIVAL	GET YEAR VALUE
1269	01	001E2	35200001 N	STW,R2	DATE+1	STORE YEAR
1270	01	001E3	6800006D	B	KEYINR	EXIT
1271				BOUND	8	
1272	01	001E4	0000F0F0 A	MAXHRVAL DATA	'00','123'	HOURS
	01	001E5	0000F2F3 A			
1273	01	001E6	0000F0F0 A	MAXMINVAL DATA	'00','159'	MINUTES
	01	001E7	0000F5F9 A			
1274	01	001E8	0000F0F1 A	MAXMONVAL DATA	'01','112'	MONTHS
	01	001E9	0000F1F2 A			
1275	01	001EA	0000F0F1 A	MAXDAYVAL DATA	'01','131'	DAYS
	01	001EB	0000F3F1 A			
1276	01	001EC	0000F0F0 A	MAXYRVAL DATA	'00','199'	YEARS
	01	001ED	0000F9F9 A			

1277
 1288 01 001FE
 1289
 1290
 1291
 1292
 1293
 1294
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 1296
 1297
 1*
 2*
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 26*

PAGE
 GDTKIVAL EQU \$

 F NAME: GDTKIVAL
 F
 F PURPOSE: SUBROUTINE TO GET AND VALIDATE DATE/TIME VALUES.
 F
 F DESCRIPTION: OBTAINS NEXT FIELD FROM KEYINBUF, INSURES THAT
 F IT IS A VALID DECIMAL CHARACTER, AND THAT IT IS WITHIN
 F A CALLER-SPECIFIED RANGE.

 D NAME: GDTKIVAL
 D
 D CALL: BAL,SR4(R11)
 D
 D INPUT: R0 = POINTER TO A DOUBLEWORD CONTAINING THE VALID
 D EBCDIC LIMITS,
 D R7 = ADR OF KEYIN PARAMETER LIST
 D
 D OUTPUT: R2 = THE NEXT EBCDIC/DECIMAL CHARACTERS FROM KEYINBUF
 D (RIGHT=JUSTIFIED)
 D
 D REGISTERS: R1 & R3 ARE VULNERABLE
 D
 D INTERFACE: GKIFLD
 D
 D ENVIRONMENT: MASTER/MAPPED
 D
 D DESCRIPTION: CALLS GKIFLD TO OBTAIN THE NEXT FIELD FROM
 D KEYINBUF; CHECKS THE FIRST CHARACTER FOR A VALID
 D DECIMAL CHARACTER; IF ONLY 1 CHARACTER WAS SPECIFIED
 D A LEADING EBCDIC ZERO IS SUPPLIED; OTHERWISE THE
 D SECOND CHARACTER IS CHECKED FOR A VALID DECIMAL
 D CHARACTER; AN ERROR OCCURS IF MORE THAN 2 CHARACTERS
 D WERE OBTAINED BY GKIFLD. THE SPECIFIED CHARACTERS ARE
 D THEN VALIDATED AGAINST THE CALLED-SUPPLIED LIMITS AND,
 D IF OK, THE CHARACTERS ARE RETURNED TO THE CALLER

27*
28*
1298
1299 01 001EE 09B00000 N
1300 01 001EF 09000000 N
1301 01 001F0 6AB00050
1302 01 001F1 69800208
1303 01 001F2 08000000 N
1304 01 001F3 322E0005 A
1305 01 001F4 25200068 A
1306 01 001F5 6AB0020A
1307 01 001F6 33FE0004 A
1308 01 001F7 68300203
1309 01 001F8 322E0005 A
1310 01 001F9 25200070 A
1311 01 001FA 6AB0020A
1312 01 001FB 33FE0004 A
1313 01 001FC 69300209
1314 01 001FD
1315 01 001FD 322E0005 A
1316 01 001FE 25200070 A
1317 01 001FF 99200000 A
1318 01 00200 69900066
1319 01 00201 08B00000 N
1320 01 00202 F800000B A
1321
1322 01 00203
1323 01 00203 323E0005 A
1324 01 00204 222000F0 A
1325 01 00205 25200178 A
1326 01 00206 353E0005 A
1327 01 00207 680001FD
1328
1329 01 00208
1330 01 00208 08000000 N
1331 01 00209
1332 01 00209 68000066

D (RIGHT=JUSTIFIED).

```

*
      PUSH      SR4
      PUSH      R0
      BAL,SR4   GKIFLD      GET NEXT FIELD
      BCS,8     GDTKIV3     ILLEGAL FIELD
      PULL      R0
      LW,R2     KPLB,R7     (R2) = 1ST 4 CHAR
      SLS,R2    KN18
      BAL,SR4   DTVALCK     CHECK IF 1ST CHAR IS LEGAL DEC CHAR
      MTW,-1    KFL,R7      DECREMENT FIELD LENGTH COUNT
      BEZ       GDTKIV2     CHECK IF = 0
      LW,R2     KPLB,R7
      SLS,R2    KN10
      BAL,SR4   DTVALCK     CHECK IF 2ND CHAR IS LEGAL DEC CHAR
      MTW,-1    KFL,R7      DECREMENT FIELD LENGTH COUNT
      BNEZ      GDTKIV4     ERROR IF NOT ZERO
      EQU       *
      LW,R2     KPLB,R7
      SLS,R2    =16         RIGHT JUSTIFY
      CLM,R2    *0          LEGAL VALUE
      BBL      KEYERR
      PULL      SR4
      B         *SR4       NORMAL EXIT *****

*
      EQU       *
      LW,R3     KPLB,R7     INSERT
      LT,R2     KFO         LEADING EBCDIC
      SLD,R2    KN8        ZERO
      STW,R3    KPLB,R7     FOR 1 CHAR
      B         GDTKIV1     VALUE

*
      EQU       *
      PULL      R0
      EQU       *
      B         KEYERR
  
```

HO1 17:42 SEP 08, 175

1333
 1334
 1335
 1336 01 0020A
 1337 01 0020A 4B200008 N
 1338 01 0020B 212000F0 A
 1339 01 0020C 69100209
 1340 01 0020D 212000F9 A
 1341 01 0020E 69200209
 1342 01 0020F F800000B A

*
 * DATE TIME VALUE CHECK
 *
 DTVALCK EQU *
 AND,R2 XFF
 CI,R2 KFO
 BL GDTKIV4
 CI,R2 KF9
 BG GDTKIV4
 B *SR4

CHECK IF < F0
 ERROR
 CHECK IF > F9
 ERROR
 EXIT

1377
1*
2*
3*
4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*

PAGE

```
*****
*                               AVRTBL FLAG-BIT COMBINATIONS
*****
*                               PUB SERIAL NBU AVR ID SOL VER
* PREMOUNT PUBLIC             1   #       1   0   0   0   0
* PREMOUNT                     0   #       0   0   #   0   0
* AVAILABLE                     0   0       0   0   0   0   0
* SOLICITED                     0   #       0   0   #   1   1
* BEING VERIFIED                 #   #       0   0   #   0   1
* DISMOUNT(LOCK)                 #   #       #   1   =1  0   0
* PRIVATE(EXCL)                  0   #       #   1   #   0   0
* SHARE                          0   #       #   1   0   0   0
* PUBLIC                         1   #       #+1  1   0   0   0
*****
```

1394
1395
1396
1397
1398
1399
1400
1401
1402
1403
1404
1405
1406
1407
1408
1409
1410
1411
1412
1413
1414
1415

01 00210

```
*
* KIANSS EQU $
*****
*F* NAME: KIANSS
*F*
*F* PURPOSE: TO PROCESS THE IANSS(CRATCH) KEYIN.
*F*
*F* DESCRIPTION: SETS R9 = Y2 AND CALLS KIMOUNTZ.
*****
```

01 00210 3290001E N
01 00211 6800021C

```
*
* LW,SR2 Y2 ANS SCRATCH FLAG
* B KIMOUNTZ
*
```

01 00212

```
*
* KIANSM EQU $ ANS MOUNT FLAG
*****
*F* NAME: KIANSM
*F*
*F* PURPOSE: TO PROCESS THE IANSM(MOUNT) KEYIN.
*F*
*F* DESCRIPTION: SETS R9 = Y3 AND CALLS KIMOUNTZ.
*****
```

1416
 1417
 1418 01 00212 32900000 X
 1419 01 00213 6800021C
 1420
 1421
 1422
 1423 01 00214
 1424
 1425
 1426
 1427
 1428
 1429
 1430
 1431
 1432 01 00214 3290001F N
 1433 01 00215 6800021C
 1434
 1435
 1436
 1437 01 00216
 1438
 1439
 1440
 1441
 1442
 1443
 1444
 1445
 1446 01 00216 32900000 A
 1447 01 00217 6800021C
 1448
 1449
 1450
 1451 01 00218
 1452

```

*****
*
*          LW,SR2  Y3
*          B      KIMOUNTZ
*
*
*          KIANSO  EQU      $          ANS  OVER FLAG
*****
*F*      NAME:      KIANSO
*F*
*F*      PURPOSE:  TO PROCESS THE ,OVER, AND ,READ, KEYINS.
*F*
*F*      DESCRIPTION: SETS R9 = Y4 AND CALLS KIMOUNTZ.
*****
*
*          LW,SR2  Y4
*          B      KIMOUNTZ
*
*
*          KIMOUNT EQU      $
*****
*F*      NAME:      KIMOUNT
*F*
*F*      PURPOSE:  TO PROCESS THE ,MOUNT, KEYIN.
*F*
*F*      DESCRIPTION: SETS R9 = 0 AND CALLS KIMOUNTZ.
*****
*
*          LI,SR2  0          NOT SCRATCH
*          B      KIMOUNTZ
*
*
*          KISCRTH EQU      $
*****

```


1453
 1454
 1455
 1456
 1457
 1458
 1459
 1460
 1461 01 00218 322E0006 A
 1462 01 00219 31200609
 1463 01 0021A 69300489
 1464 01 0021B 3290001D N
 1465
 1*
 2*
 3*
 1467 01 0021c
 1468
 1469
 1470
 1471
 1472
 1473
 1474
 1475
 1*
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 3*
 4*
 5*
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 11*
 12*

```

*F*      NAME:      KISCRTH
*F*
*F*      PURPOSE:   TO PROCESS THE 'SCRATCH' KEYIN.
*F*
*F*      DESCRIPTION: VALIDATES COMMAND, SETS R9 = Y1 AND FALLS THRU
*F*                  TO KIMBUNTZ.
*****
*
*      LW,R2      KPLB+1,R7
*      CW,R2      L('ITCH ')          CHECK IF REALLY SCRATCH KEYIN
*      BNE        SKEYIN              NO
*      LW,SR2     Y1
*      B          KIMBUNTZ            FALL THRU TO KIMBUNTZ
*
*
*
KIMBUNTZ RES      0
*****
*F*      NAME:      KIMBUNTZ
*F*
*F*      PURPOSE:   COMMON HANDLER FOR THE FOLLOWING KEYINS:
*F*                  ANSS, ANSM, OVER, READ, MBUNT & SCRATCH
*F*
*F*      DESCRIPTION: PROCESS THE VARIOUS TAPE AND PACK-RELATED KEYINS
*****
*D*      NAME:      KIMBUNTZ
*D*
*D*      ENTRY:     KISCRTH, KIMBUNT, KIANSS, KIANSM, KIANSS
*D*
*D*      CALL:      KEYIN FORMATS:
*D*
*D*                  MBUNT NDD(,NDD)(,BLP)(,SERIAL#(,PUBLIC),
*D*                                     LOCK
*D*
*D*                  SCRATCH NDD(,NDD)(,BLP),SERIAL#
*D*
*D*                  ANSMBUNT NDD(,NDD)(,BLP)
    
```

13* *D*
 14* *D*
 15* *D*
 16* *D*
 17* *D*
 18* *D*
 19* *D*
 20* *D*
 21* *D*
 22* *D*
 23* *D*
 24* *D*
 25* *D*
 26* *D*
 27* *D*
 28* *D*
 29* *D*
 30* *D*
 31* *D*
 32* *D*
 33* *D*
 34* *D*
 35* *D*
 36* *D*
 37* *D*
 38* *D*
 39* *D*
 40* *D*
 41* *D*
 42* *D*
 43* *D*
 44* *D*
 45* *D*
 46* *D*
 47* *D*
 48* *D*
 49* *D*

ANSSCRATCH NDD(,NDD),(,BLP),(,SERIAL#)

OVER NDD(,SERIAL#)
 READ NDD(,SERIAL#)

INPUT: R7 = ADR OF KEYIN PARAMETER LIST
 SOLICIT, AVRTBL, AVRID, ANSFLGS, ANSPRT, DCT4,
 TSERIAL, LSERIAL, RSERIAL, SH:RTOT, SH:R0CU
 SH:RBCU, SH:RGCU

OUTPUT: AVR TABLES SET TO REFLECT PRESENCE OF TAPE OR PACK

REGISTERS: ALL ARE VULNERABLE

INTERFACE: NDD, SIXPACK, RAT, DCT4, ASPIN, HOWALB, KIREQND6
 WAKEUP

ENVIRONMENT: MASTER/MAPPED

DESCRIPTION: EACH OF THE SPECIFIED ENTRY POINTS SETS A UNIQUE
 FLAG IN SR2(R9) TO INDICATE THE TYPE OF MOUNT KEYIN.
 KIMOUNTZ IS THE COMMON HANDLER FOR THESE KEYINS.
 THROUGHOUT THE MOUNTING PROCESS THE FOLLOWING REGISTER
 CONVENTIONS ARE UTILIZED:

R5 (BYTE 0) = 0 OR DCTX OF ORIGINALLY REQUESTED
 DRIVE IF A UNIT SWITCH WAS INDICATED
 (BYTE 3) = AVR INDEX OF DRIVE TO BE MOUNTED
 R10 = POSITIVE VALUE IF WE ARE WORKING WITH A PACK
 NEGATIVE VALUE IF WE ARE WORKING WITH A TAPE
 R12/R13(D1/D2) = ORIGINAL CONTENTS OF THE AVRTBL OF
 THE DRIVE ACTUALLY BEING MOUNTED
 R14/R15(D3/D4) = INITIALLY A COPY OF R12/R13
 (UNLESS A UNIT SWITCH HAS BEEN
 INDICATED IN WHICH CASE R14/R15
 ARE THE CONTENTS OF THE ORIGINAL
 REQUESTED DRIVE(S AVRTBL), R14/R15

H01 17:42 SEP 08, '75

50*
51*
52*
53*
54*
55*
56*
57*
58*

1479				
1488	01	0021C	6AF00000	X
1489	01	0021D	22600000	A
1490	01	0021E	B2A0021E	
1491	01	0021F	21500000	N
1492	01	00220	69100224	
1493	01	00221	32A00221	
1494	01	00222	70200009	A
1495	01	00223	69F00066	
1496	01	00224	2180004B	A
1497	01	00225	69300234	
1498	01	00226	3190001F	N
1499	01	00227	68300066	
1500	01	00228	730A0000	X
1501	01	00229	68300066	
1502	01	0022A	09500000	N
1503	01	0022B	6AF00000	X
1504	01	0022C	08300000	N
1505	01	0022D	12CA0000	X
1506	01	0022E	12E60000	X
1507	01	0022F	52660000	X
1508	01	00230	20300000	N
1509	01	00231	75300005	A
1510	01	00232	32F0000D	A
1511	01	00233	6800023D	
1512		01 00234		

1*
2*

D
D
D
D
D
D
D
D
D
D

*

BAL,D4	NDD	CHECK NDD =BK DCTX IN R2
LI,6	0	ID
LW,10	*8	SET TAPE/PACK FLAG
CI,5	AVRTBLSIZ	IS IT RIGHT
BL	*+4	YES
LW,10	*	NO, SET POSITIVE
LC	SR2	NOTHING BUT MOUNT FOR PACKS
BCS,15	KEYERR	
CI,SR1	1,1	UNIT SWITCH
BNE	NOUNTSW	NO
CW,SR2	Y4	MUST NOT BE OVER KEYIN
BE	KEYERR	
MTB,0	SOLICIT,R5	MUST BE SOLICITED
BEZ	KEYERR	
PUSH	R5	SAVE AVRX
BAL,D4	NDD	GET 2ND UNIT
PULL	R3	R3=1ST DCTX
LD,D1	AVRTBL,R5	
LD,D3	AVRTBL,R3	NEW VALUES, IF NOT MODIFIED
LH,R6	AVRID,R3	
AI,3	BATAPE	MAKE DCT INDEX
STB,R3	R5	SET FLAG FOR SRCHAVR
LW,D4	D2	GET FLAGS
B	GETAVR1	REENTER LOGIC
NOUNTSW	EGU	*

D

98
ARE UPDATED AS THE KEYIN IS PARSE
AND EVENTUALLY BECOME THE NEW
AVRTBL CONTENTS.
THE 1ST FUNCTION TO BE PERFORMED IS VALIDATION OF THE
SPECIFIED DEVICE OR DEVICES (NDD FIELDS). A UNIT
SWITCH MUST BE FOR A SOLICITED DRIVE AND NOT DURING A
I/OVER, OR I/READ, KEYIN OR AN ERROR IS RETURNED.

THE SECOND FUNCTION IS TO CHECK THE LEGALITY OF THE

H01 17:42 SEP 08, '75

3*
4*
5*
6*
7*
8*

1513	01	00234	64A0023B	
1514	01	00235	3190001F	N
1515	01	00236	6930023B	
1516	01	00237	33000000	X
1517	01	00238	69200066	
1518	01	00239	702A0000	X
1519	01	0023A	68300066	
1520	01	0023B	12CA0000	X
1521	01	0023B	12E0000C	A
1522	01	0023C		
1523	01	0023D		

1*
2*
3*
4*

1524	01	0023D	3190001D	N
1525	01	0023E	69300240	
1526	01	0023F	4790000F	A
1527	01	00240	31D0001C	N
1528	01	00241	68400244	
1529	01	00242	730A0000	X
1530	01	00243	68300066	
1531	01	00244	2180006B	A
1*	01	00245	68300249	
2*	01	00246	3190001D	N
3*	01	00247	68300066	
4*	01	00248	68000266	
5*				
1534	01	00249	6AB00050	
1535	01	0024A	69800066	
1536	01	0024B	64A00263	

D KEYIN. AN 'OVER' OR 'READ' KEYIN IS LEGAL ONLY IF TH⁹⁹
 D SYSTEM IS ANS-SEMI-PROTECTED AND THE ERR FLAGS (OF
 D ANSFLGS) ARE SET. 'BLP' MAY BE SPECIFIED FOR TAPES
 D ONLY IF THE SYSTEM IS ANS-SEMI-PROTECTED.

	BDR,10	GETAVR	PACK
	CW,SR2	Y4	OVER KEYIN
	BNE	GETAVR	NO
	MTW,0	ANSPRY	MUST BE SEMI-PROTECTIVE MODE
	BG	KEYERR	
	LC	ANSFLGS,5	ERROR FLAGS MUST BE SET
	BCR,3	KEYERR	
GETAVR	EQU	*	
	LD,D1	AVRTBL,5	REEL + 2ND WD
	LD,D3	D1	SN AND FLAGS
GETAVR1	RES		ENTRY FOR UNIT SWITCH

 D GETAVR1 IS THE ENTRY POINT INTO MOUNT-PROCESSING FOR
 D THE AVR ROUTINE.

	CW,SR2	Y1	SCRATCH
	BNE	S+2	
	STS,9	D4	SET SCRATCH IF PRESENT
	CW,D2	VERB	
	BAZ	CHKSR	NOT VER
	MTB,0	SOLICIT,5	MUST BE SOLICITED
	BEZ	KEYERR	
CHKSR	CI,SR1	' , '	
	BE	CHKSR1	
	CW,SR2	Y1	IS THIS A SCRATCH REQUEST
	BE	KEYERR	YES
	B	REEL#+1	NO
CHKSR1	J		
	BAL,SR4	GK1FLD	
	BCS,8	KEYERR	
	BDR,10	MNTSCR	NO BLP FOR PACKS

H01

17:42 SEP 08, '75

1537 01 0024C 322E0005 A
 1538 01 0024D 31200006
 1539 01 0024E 6830027A
 1540 01 0024F

LW,R2 KPLB,R7
 CW,R2 BLF
 BE CHKBLP
 EQU *

NOTBLP

1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*

 D THE KEYIN IS CHECKED FOR A SERIAL NUMBER; SERIAL
 D NUMBERS ARE ILLEGAL UNDER THE FOLLOWING CONDITIONS:
 D > ANSMOUNT KEYIN
 D > ANSSCRATCH KEYIN IN A PROTECTED SYSTEM
 D > ANS SERIAL# NOT 6 CHARACTERS; CP=V LABEL >4 CHAR
 D > OVER/READ KEYIN REFERENCING AN ANS VOLUME
 D FOR PACKS, THE SPECIFIED SERIAL# IS CHECKED AGAINST
 D THE MBS SERIAL# TABLES AND, IF FOUND, ITS DEVICE#TYPE
 D IS VALIDATED AGAINST THAT SPECIFIED IN THE KEYIN.

 *

1541 01 0024F 3190001E N
 1542 01 00250 69400259
 1543 01 00251 69100263
 1544 01 00252 720A0000 X
 1545 01 00253 48000002
 1546 01 00254 21000030 A
 1547 01 00255 68300066
 1548 01 00256 702A0000 X
 1549 01 00257 6940025C
 1550 01 00258 68000263
 1551 01 00259 69200066
 1552 01 0025A 33000000 X
 1553 01 0025B 69200066
 1554 01 0025C
 1555 01 0025C 33AE0004 A
 1556 01 0025D 69300066
 1557 01 0025E 44100265
 1558 01 0025F 25100002 A
 1559 01 00260 6AB00000 X
 1560 01 00261 32E00002 A
 1561 01 00262 68000266

CW,SR2 Y2 CHECK TYPE
 BANZ AMNTSCR ANS MOUNT/SCRATCH
 BL MNTSCR MOUNT/SCRATCH
 LB,R0 ANSFLG6,R5 ANS FLAGS
 AND,R0 X30
 CI,R0 ANSVOL*** SERIAL # ILLEGAL IF ANS VBL
 BE KEYERR
 LC ANSFLG6,R5
 BCS,4 ANSREEL#
 B MNTSCR
 AMNTSCR BG KEYERR ANSMNT MUST NOT HAVE SN
 MTW,0 ANSPRT MUST BE SEMI-PROTECTIVE MODE
 ANSREEL# BG KEYERR
 EQU *
 MTW,06 KFL,R7 ANS SERIAL# MUST BE 6 CHARS
 BNE KEYERR
 ANLZ,R1 REEL#
 SLS,R1 2 BYTE ADDRESS
 BAL,SR4 SIXPACK
 LW,D3 R2 HASHED SERIAL #
 B REEL#+1

MO1 17:42 SEP 08, 175

1562		01	00263	
1563	01	00263	33CE0004	A
1564	01	00264	69200066	
1565		01	00265	
1566	01	00265	32EE0005	A
1567	01	00266	65A00280	
1568	01	00267	22B00280	
1569	01	00268	32100000	X
1570	01	00269	442002C0	
1571	01	0026A	72440000	X
1572	01	0026B	31E20000	X
1573	01	0026C	69300272	
1574	01	0026D	22300000	A
1575	01	0026E	72360000	X
1576	01	0026F	68300274	
1577	01	00270	31100003	A
1578	01	00271	6930026E	
1579	01	00272	6410026B	
1580	01	00273	F800000B	A
1581	01	00274	71420000	X
1582	01	00275	F830000B	A
1583	01	00276	6A10032D	
1584	01	00277	0B40E6D9	A
	01	00278	D6D5C740	A
	01	00279	F3E8D7C5	A

MNTSCR	EQU	\$
	MTW,4	KFL,R7
	BG	KEYERR
REEL#	EQU	\$
	LW,D3	KPLB,R7
	BIR,10	CHKID
	LI,11	CHKID
REST	LW,1	TSERIAL
	ANLZ,2	DCTX
REST10	LB,4	DCT4,2
	CW,D3	TSERIAL,R1
	BNE	REST20
	LI,3	0
	LB,3	LSERIAL,3
	BEZ	REST30
	CW,1	3
REST20	BNE	*3
	BDR,1	REST10
REST30	B	*11
	CB,4	RSERIAL,1
	BE	*11
TYPERR	BAL,1	AVRS,1
	TEXTC	! WRONG TYPE!

MAX 4 CHARS

REEL #
 NO RES CHK FOR TAPES
 SET RETURN
 IF IN BATCH SNS, MUST BE RIGHT RES.

CHECK THAT ENTRY IS ACTIVE

TYPE ON BC

1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*

 0 MESSAGE! YYNDD WRONG TYPE
 0
 0 MEANING! THE SPECIFIED DISK PACK THAT WAS JUST MOUNTED IS OF
 0 THE WRONG RESOURCE TYPE.
 0
 0 ACTION! MOUNT THE PACK ON A DRIVE OF THE CORRECT RESOURCE
 0 TYPE AND RE-TRY THE 'MOUNT' KEY!

 *
 *
 *

H01

17:42 SEP 08, 1975

13*		01	0027A			
14*	01	0027A		33000000	X	
15*	01	0027B		69200066		
16*	01	0027C		722A0000	X	
17*	01	0027D		49200002	N	
18*	01	0027E		752A0000	X	
19*	01	0027F		68000244		

CHKBLP

EQU	*
MTW,0	ANSPT
BG	KEYERR
LB,R2	ANSFLGS,R5
OR,R2	BT31T80*2
STB,R2	ANSFLGS,R5
B	CHKSR

MUST BE SEMI-PROTECTIVE MODE

BLP FLAG

20*
1585 01 00280

CHKID PAGE
RES

1*
2*
3*
4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*
15*
16*
17*
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27*
28*
29*
30*
31*
32*
33*

D THE LAST KEYIN FIELD IS CHECKED AND CVSYSID IS CALLED
D TO VALIDATE THE SPECIFIED USER ID OR THE APPROPRIATE
D ROUTINE IS CALLED TO PROCESS THE 'LOCK' OR 'PUBLIC'
D OPTIONS. THE 'PUBLIC' OPTION IS ILLEGAL UNDER THE
D FOLLOWING CONDITIONS:
D > THE SPECIFIED UNIT IS NOT A DISK PACK
D > THE UNIT IS IN EXCL USE
D > THE UNIT IS ALREADY MARKED 'PUBLIC'
D > THE SERIAL# IN THE AVRTBL DOESN'T MATCH THAT OF
D THE KEYIN AND THE DRIVE IS IN USE (AVRNOU>0)
D > ANOTHER DRIVE WITH THE SAME SERIAL# IS MOUNTED
D AND IS CURRENTLY IN USE
D TO MAKE THE DRIVE PUBLIC, A USER (BATCH OR ON-LINE) IS
D UNCHARGED FOR THE UNIT (VIA ASPIN AND HOWALO ROUTINES
D IF THE SPECIFIED DRIVE IS CURRENTLY IN USE)
D AND THE DRIVE IS CHARGED TO SHIRGCU. THE 'PUB' BIT I
D R15 IS SET, AVRNOU IS INCREMENTED AND CONTROL PASSES
D TO THE FINAL FUNCTION, THAT OF STORING AWAY THE AVRTB
D INFORMATION (SEE BELOW). THE 'LOCK' OPTION IS ILLEGAL
D IF THE DRIVE IS CURRENTLY IN EXCLUSIVE USE OR THE
D SERIAL# IN THE EXISTING AVRTBL ENTRY DOES NOT MATCH
D THE KEYIN. IF THERE ARE NO USERS ASSOCIATED WITH THE
D PACK, KIREQND6 IS CALLED TO DISMOUNT THE DRIVE; OTHER
D WISE, AVRID IS SET TO -1 TO INDICATE 'LOCKED' TO PRE-
D VENT NEW USERS FROM ACCESSING THE DRIVE (EXCEPTION:
D AVRNOU = 1 IMPLIES THE 'GHOST USER' THAT WAS CHARGED
D FOR THE 'PRIV DRIVE MARKED PUBLIC' IN WHICH CASE THE
D AVRNOU IS SET TO ZERO, THE 'LOCKED' FLAG IN AVRID IS
D ZEROED AND THE RESOURCE IS RETURNED TO THE SYSTEM).

*

1587 01 00280 2180006B A
1588 01 00281 6930028F

CI,SR1 1,1
BNE PREMOUNT NO ID,PUBLIC

H01 17142 SEP 08, '75

105

1616	01	00298	31E0000C	A
1617	01	00299	6930029C	
1618	01	0029A	73000005	A
1619	01	0029B	683002D3	
1620	01	0029C	4BF00000	X
1621	01	0029D	680002EA	

CKSERIAL	CW,D3
	BNE
	MTB,0
	BE
	AND,D4
	B

D1
*+3
5
NOIDRUB
X1000FFFF
SRCHAVR

DIFFERENT, MUST SEARCH
TEST UNIT SWITCH

REMOVE FLAG BITS EXCEPT SCRATCH
PREMOUNT

LINE	MODE	KEY	ADDRESS	STATUS	GROUP	PAGE	RES	OTHER	REMARKS
1622						PUBLK	RES		
1623	01	0029E					LI,1	MBSOP#LPART	CHECK AGAINST RUNNING EXCLIS
1624	01	0029E	22100000	N			LB,2	PLBIMIN,1	HEAD OF EXCL CHAIN
1625	01	0029F	72220000	X	SEP10		BEZ	SEP20	
1626	01	002A0	683002A5				CW,14	TSERIAL,2	
1627	01	002A1	31E40000	X			BE	KEYERR	NO CAN DO
1628	01	002A2	68300066				LB,2	LSERIAL,2	
1629	01	002A3	72240000	X			BNEZ	0=3	
1630	01	002A4	693002A1				AI,1	=SVIRSIZ	TO NEXT ENTRY
1631	01	002A5	20100000	N	SEP20		BDR,1	SEP10	
1632	01	002A6	6410029F				ANLZ,2	DCTX	GET DCTX
1633	01	002A7	442002C0				BAL,11	RATIDCT4	GET RES TYRE
1634	01	002A8	6AB00000	X			AI,02	0	
1635	01	002A9	20D00000	A			BLZ	KEYERR	PUBLIC ALREADY
1636	01	002AA	69100066				LW,0	AVRNOU,5	IS IT IN USE
1637	01	002AB	520A0000	X			BNEZ	ISPS	YES, MUST BE SAME SN
1638	01	002AC	693002C1				LI,4	AVRTBLNE	
1639	01	002AD	22400000	N			AI,4	=1	
1640	01	002AE	204FFFFFF	A	ISPS5		CI,4	AVRTBLSIZ	
1641	01	002AF	21400000	N			BL	ISPS3	
1642	01	002B0	691002B8				CLM,D3	AVRTBL,4	IS THERE OTHER DRIVE W. SAME SN
1643	01	002B1	19E80000	X	ISPS2		BNE	ISPS5	
1644	01	002B2	693002AE				LW,R2	AVRNOU,4	IF IN USE
1645	01	002B3	52280000	X			BNEZ	AVRS	GIVE NOT UNIQUE MSG
1646	01	002B4	6930032C				LB,0	SOLICIT,4	SAVE WHETHER SOLICITED
1647	01	002B5	72080000	X			CW,4	5	OF EITHER IF BOTH THE SAME OR NOT
1648	01	002B6	31400005	A			BE	ISPS5	KEEP LOOKING IF SAME
1649	01	002B7	683002AE				AI,0	0	MUST HAVE RESORUCE FOR UNSOLICITED
1650	01	002B8	20000000	A	ISPS3		BNEZ	ISPS0	
1651	01	002B9	693002CD				* IF SOLICITED, USER WILL GIVE BACK ONE WHEN HE WAKES UP		
1652							LW,0	SHIRTOT,1	CHECK THAT IT IS POSSIBLE
1653	01	002BA	52020000	X			SH,0	SHIRGCU,1	
1654	01	002BB	58020000	X			SH,0	SHIRGCU,1	
1655	01	002BC	58020000	X			SH,0	SHIRGCU,1	
1656	01	002BD	58020000	X			SH,0	SHIRGCU,1	
1657	01	002BE	68200066				BLEZ	KEYERR	
1658	01	002BF	680002CD				B	ISPS0	

HO1 17142 SEP 08, '75

1659 01 002C0 320A0000 X
 1660 01 002C1 31C0000E A
 1661 01 002C2 69300066
 1662 01 002C3 02200020 A
 01 002C4 0BE00000 N
 1663 01 002C5 22E00000 A
 1664 01 002C6 6AB00000 X
 1665 01 002C7 6AB00000 X
 1666 01 002C8 02200020 A
 01 002C9 0AE00000 N
 1667 01 002CA 530A0000 X
 1668 01 002CB 683002CD
 1669 01 002CC 03F20000 A
 1670 01 002CD 53120000 X
 1671 01 002CE 49F00020 N
 1672 01 002CF 531A0000 X
 1673 01 002D0 21400000 N
 1674 01 002D1 6810030A
 1675 01 002D2 6800031E

DCTX
ISPS

ISPS0

LW,0 BATAP,5
 CW,D1 D3
 BNE KEYERR
 PUSH 2,14
 LI,14 0
 BAL,11 ASPIN
 BAL,11 HOWALB
 PULL 2,14
 MTH,0 AVRNB,5
 BEZ *+2
 MTH,-1 *0,1
 MTH,1 SHIRGCU,1
 BR,D4 Y8
 MTH,1 AVRNB,5
 CT,4 AVRTBLBIZ
 BGE CHK1
 B SETNEW

FOR LW,2 5 .. AI,2 BATAP

RESET
 0=BIT,4=SPINX
 LOADS 0 WITH WHO, CLEARS SPIN

GHOST OR PREMOUNT
 PREMOUNT
 UNCHARGE IT
 CHARGE IT TO GHOST
 SET PUBLIC BIT
 INCREMENT USERS
 IF THERE IS ANOTHER,
 SWITCH THEM
 ELSE GO STORE IN TABLES

H01 17:42 SEP 08, 1975

108

1676				PAGE		
1677	01	002D3	526A0000 X	LH,6	AVRID,5	
1679	01	002D4	3190001E N	CW,SR2	Y2	ANS KEYIN
1680	01	002D5	6810031E	BGE	SETNEW	YES, STORE IN TABLE
1681	01	002D6	21CFFFFF A	CI,D1	*1	SCRATCH
1682	01	002D7	68300066	BE	KEYERR	YES
1683	01	002D8	68400066	BAZ	KEYERR	NOTHING
1684	01	002D9	6800031E	B	SETNEW	STORE AND WAKE-UP

1685
 1686 01 002DA
 1687 01 002DA 220FFFFFF A
 1688 01 002DB 510A0000 X
 1689 01 002DC 683002DE
 1690 01 002DD 69400066
 1691 01 002DE 31C0000E A
 1692 01 002DF 69300066
 1693 01 002EO 442002CO
 1694 01 002E1 52CA0000 X
 1695 01 002E2 683003E1
 1696 01 002E3 6AB00268
 1697 01 002E4 20100000 A
 1698 01 002E5 69300066
 1699 01 002E6 64C002E8
 1700 01 002E7 65D003E1
 1701 01 002E8 550A0000 X
 1702 01 002E9 6800006D

LOCK

PAGE
 RES 0
 LI,0 =1
 CH,0 AVRID,5
 BE *+2
 BANZ KEYERR
 CW,D1 D3
 BNE KEYERR
 ANL2,R2 DCTX
 LH,12 AVRNOU,5
 BEZ KIREQND6
 BAL,11 REST
 AI,1 0
 BNEZ KEYERR
 BDR,12 *+2
 BIR,D2 KIREQND6
 STH,0 AVRID,5
 B KEYINR

CHECK AVRID

ALREADY LOCKED, CHECK FOR DISMOUNT
 EXCLUSIVE
 MUST BE SAME SN

GET DCTX FOR REQU

IS IT NEEDED FOR RUNNING BATCH

YES,

*1 JUST SET AVRID
 1 AND PUBLIC, REQU
 SET LOCKED

1733

PAGE

- 1*
- 2*
- 3*
- 4*
- 5*
- 6*
- 7*
- 8*
- 9*
- 10*
- 11*
- 12*
- 13*
- 14*
- 15*
- 16*
- 17*
- 18*
- 19*
- 20*
- 21*

```

*****
*D* THE FOURTH (& FINAL) FUNCTION IS TO STORE AWAY R14/R15
*D* INTO THE APPROPRIATE AVRTBL ENTRY TO REFLECT THE
*D* KEYIN. TWO ROUTINES ARE USED: SRCHAVR LOOKS FOR A
*D* MATCHING AVRTBL ENTRY WHEN THE SERIAL# SPECIFIED IN
*D* THE KEYIN (REPRESENTED IN R14) DOES NOT MATCH THAT
*D* ALREADY IN THE AVR TABLE (REPRESENTED IN R12). THIS
*D* OCCURS WHEN A UNIT SWITCH IS EMPLOYED, WHEN A USER
*D* HAS REQUESTED THIS SERIAL# ON A DIFFERENT DRIVE, OR IF
*D* THE SERIAL# WAS PREVIOUSLY MOUNTED ON A DIFFERENT
*D* DRIVE. IF A MATCH IS FOUND, AND DOES NOT CHANGE TAPE
*D* RESOURCE*TYPE OR CAUSE CONFUSION BY BEING IN USE, ITS
*D* USER IS AWAKENED, THE ANS FILENAME IS MOVED TO THE
*D* NEW ENTRY AND THE OLD ENTRY IS CLEARED. SETNEW STORES
*D* AWAY R14/R15 INTO AVRTBL, ZERGES SOLICIT, WAKES UP THE
*D* USER ASSOCIATED WITH THE AVR ENTRY (AVRID), IF
*D* APPROPRIATE, RESETS ALL ANSFLGS EXCEPT 'BLP' AND
*D* 'MS' (IF TAPE MOUNT) AND SETS THE 'AK' BIT (IF AN ANS
*D* KEYIN .
*****

```

1741	01	002EA	
1742	01	002EA	444002C0
1743	01	002EB	72280000 X
1744	01	002EC	72400005 A
1745	01	002ED	692002FC
1746	01	002EE	32C0000E A
1747	01	002EF	31F0001D N
1748	01	002F0	684002F2
1749	01	002F1	22CFFFFFF A
1750	01	002F2	22400000 N
1751	01	002F3	22D00000 N
1752	01	002F4	65A002F7
1753	01	002F5	20400000 N
1754	01	002F6	22D00000 N
1755	01	002F7	19C80000 F

```

*
SRCHAVR RES SEARCH AVRTBL FOR MATCH
ANLZ,4 DCTX GET DEVICE TYPE
LB,2 DCT4,4 FOR TAPES
LB,4 5 IF SWITCH, WE KNOW WHERE IT GOES
BGZ CHK0
LW,D1 D3
CW,D4 Y1
BAZ *2 NOT SCRATCH
LI,D1 #1 SEARCH FOR #1
LI,4 BATAPE START DCTX FOR TAPE
LI,D2 AVRTBLSIZ #ENTRIES
BIR,10 CHK TAPE
AI,4 AVRTBLSIZ PACK START
LI,D2 AVRTBLNE=AVRTBLSIZ #ENTRIES
CHK CLM,D1 AVRTBL=BATAPE-BATAPE,4 TEST SN

```

H01 17142 SEP 08, 175

1756 01 002F8 683002FC
 1757 01 002F9 20400001 A
 1758 01 002FA 64D002F7
 1759 01 002FB 6800031E
 1760 01 002FC
 1761 01 002FC 64A002FF
 1762 01 002FD 71280000 X
 1763 01 002FE 69300276
 1764 01 002FF 20400000 N
 1765 01 00300 12280000 X
 1766 01 00301 31300001
 1767 01 00302 69400305
 1768 01 00303 53080000 X
 1769 01 00304 6830030A
 1770 01 00305 64A0032C
 1771 01 00306 20600000 A
 1772 01 00307 6830032C
 1* 01 00308 20400000 N
 2* 01 00309 680002F9
 1773 01 0030A
 1774 01 0030A 6AB00000 X
 1775 01 0030B 12C80000 X
 1776 01 0030C 6BD00000 A
 1777 01 0030D 22C00000 A
 1778 01 0030E 15C80000 X
 1779 01 0030F 55C80000 X
 1780 01 00310 75C80000 X
 1781 01 00311 64A0031E
 1782 01 00312 75C80000 X
 1783 01 00313 12200004 A
 1784 01 00314 10200002 A
 1785 01 00315 10200004 A
 1786 01 00316 10200002 A
 1787 01 00317 20200006 N
 1788 01 00318 20300006 N
 1789 01 00319 224FFFFA A
 1790 01 0031A 22C00000 A

CHK0

CHK1

BE
 AI,4
 BDR,D2
 B
 RES
 BDR,10
 CB,2
 BNE
 AI,4
 LD,R2
 CW,3
 BANZ
 MTH,0
 BEZ
 BDR,10
 AI,6
 BEZ
 AI,4
 B
 RES
 BAL,11
 LD,12
 INT,13
 LI,12
 STD,D1
 STH,D1
 STB,D1
 BDR,10
 STB,D1
 LD,2
 AD,2
 AD,2
 AD,2
 AI,2
 AI,3
 LI,4
 LI,D1

CHK0
 1
 CHK
 SETNEW
 *+3
 DCT,4,4
 TYPERR
 *BATAPE
 AVRTBL,4
 YC1FF
 *+3
 AVRNBU,4
 CHK1
 AVRS
 0
 AVRS
 BATAPE
 CHK+2
 WAKEUP
 AVRTBL,4
 13 KILL PUB,SCR ETC. , PRESERVE HGP
 0
 AVRTBL,4
 AVRID,4
 SOLICIT,4
 SETNEW
 ANSFLGS,4
 *
 2
 4
 2
 AVRFNMT+6
 AVRFNMT+6
 =6
 0

NO TRY NEXT

NOT THERE, JUST PUT IN THIS ONE

RESOURCE SWITCH O.K. FOR PACKS

BUSY
COULD BE A PROBLEM

ALL IS O.K.
ONLY ONE PACK PER SN
OR UNATTACHED TAPE

DONE IF PACK
MOVE ANSFN FOR TAPES

MULTIPLY BY 6
POINT TO END OF ENTRY

HO1 17142 SEP 08, 175

1791	01	0031B	66C80002	A
1792	01	0031C	85C80003	A
1793	01	0031D	6540031A	
1794	01	0031E	22D00000	A
1795	01	0031F	75DA0000	X
1796	01	00320	15EA0000	X
1797	01	00321	32400005	A
1798	01	00322	6AB00000	X
1799	01	00323	556A0000	X
1800	01	00324	64A0006D	
1801	01	00325	72CA0000	X
1802	01	00326	4BC00002	N
1803	01	00327	22D00008	A
1804	01	00328	25900206	A
1805	01	00329	4AC00009	A
1806	01	0032A	75CA0000	X
1807	01	0032B	6800006D	
1808				
1809				
1810	01	0032C	22100330	
1811	01	0032D	447002C0	
1812	01	0032E	22B0006D	
1813	01	0032F	68000000	X
1814				
1815	01	00330	0B40D5D6	A
	01	00331	F340E4D5	A
	01	00332	69D8E4C5	A

	XW,D1	*2,4
	STW,D1	*3,4
	BIR,4	*3
SETNEW	LI,D2	0
	STB,D2	SOLICIT,5
	STD,D3	AVRTBL,5
	LW,4	5
	BAL,11	WAKEUP
	STH,6	AVRID,5
	BDR,10	KEYINR
	LB,D1	ANSFLGS,5
	AND,D1	M2
	LI,D2	8
	SCS,SR2	6
	LS,D1	SR2
	STB,D1	ANSFLGS,5
	B	KEYINR

SET ENTRY
 SET FOR WAKEUP
 SET ID
 DONE IF PACK
 SET PROPER ANS FLGS IF TAPE
 CLEAR MBST
 SET ANS KEYIN FLAG IF PROPER
 Y2 TO X8

	LI,1	NOTUNIQUE
AVRS	ANLZ,7	DCTX
	LI,11	KEYINR
	B	OCQUEUE

GET DCTX
 TYPE ON BC
 LIKE SYMBIONT MESSAGE

* NOTUNIQUE TEXTC : NOT UNIQUE!

- 1*
- 2*
- 3*
- 4*
- 5*
- 6*
- 7*
- 8*
- 9*
- 10*

 0 MESSAGE: YNDD NOT UNIQUE
 0
 0 MEANING: SERIAL NUMBER CONFLICT HAS OCCURRED; ONLY ONE DISK
 0 PACK WITH A GIVEN SERIAL # MAY BE ACTIVE AT ANY POINT
 0 IN TIME; ONLY ONE PRE-MOUNTED TAPE OF A GIVEN SERIAL
 0 # MAY BE MOUNTED AT ANY POINT IN TIME.
 0
 0 ACTION: DISPLAY VOLUME SERIAL NUMBERS AND GO FROM THERE.

1843
1844
1845
1846
1847
1848
1849
1850
1851
1852
1853
1854
1855
1856
1857
1859
1860
1861
1862
1863
1*
1865
1866
1867
1868
1869
1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880

01 00333

```

PAGE
RES
*****
*F* NAME: AVR
*F*
*F* PURPOSE: AUTOMATIC VOLUME SERIAL NUMBER RECOGNITION FOR
*F* TAPES AND PRIVATE PACKS.
*F*
*F* DESCRIPTION: READS LABEL FROM DEVICE, DETERMINES WHETHER ANS OR
*F* XEROX OR PACK, AND TRUNDLES INTO MOUNT LOGIC AS IF
*F* A MOUNT NDD, SN OR ANSMOUNT NDD, SNNNNN HAD BEEN KEYINE
*****
*D* NAME: AVR
*D* REGISTERS: ALL VOLATILE
*D* CALL: KEYIN BRANCHES TO AVR, WHICH RETURNS TO KEYINR.
*D* INTERFACE: NEWQ
** INPUT R7 DCTX OF DRIVE TO USE
** OUTPUT AVR TABLES SET TO REFLECT PRESENCE OF TAPE OR PACK.
** DESCRIPTION AVR ENTRY IS CHECKED TO ASSURE OPERATION WILL NOT
*D* DISTURB THE WRONG DRIVE. IF DRIVE IS A PACK, THE VTDC
*D* IS READ AND IF VALID, THE SN IS USED. IF TAPE, THE
** TAPE IS REWOUND. THE FIRST RECORD IS READ AND CHECKED
** FOR 'VOL1' IN EBCDIC OR ASCII. IF ASCII THE TAPE IS
** REWOUND AGAIN, ASCII MODE SET AND THE PROCESS REPEATS
** IF NOT 'VOL1', A SPACE FILE FORWARD, SPACE FILE BACK,
** BACK 2 RECORDS, AND READ ONE RECORD SEQUENCE IS DONE
** TO ATTEMPT TO READ THE ILBL RECORD. IF NOT FOUND,
** THE TAPE IS REJECTED WITH AN 'AVR ERR' MESSAGE.
** THIS MESSAGE IS ALSO OUTPUT IF THERE IS AN I/O ERROR
** IF THE RECORD READ IS LESS THAN 12 BYTES.
** IF ANS, THE AVR ENTRY IS CHECKED TO ASSURE THAT IT
** DOES NOT ALREADY BELONG TO SOMEONE ELSE, MAKING THAT
** USER IF SO. THE LABELS ARE THEN EXAMINED AND THE AVR
** TABLES SET WITH ALL PERTINENT DATA. THE ASSOCIATED US
** IF ANY, IS THEN WAKE IF ASLEEP, AND THE ROUTINE EXITS
** FOR XEROX LABELS, THE SRCHAVR ROUTINE IS USED TO
** LOCATE THE TAPE OR ANY DUPLICATES THEREOF AND PROCESS

```

```

1881
1*
2*
1882 01 00333 32500007 A
1883 01 00334 20500000 N
1884 01 00335 69100390
1885 01 00336 730A0000 X
1886 01 00337 6930033D
1887 01 00338 12EA0000 X
1888 01 00339 31F00001
1889 01 0033A 69400390
1890 01 0033B 52FA0000 X
1891 01 0033C 69300390
1892 01 0033D
1893 01 0033D 32A0033D
1894 01 0033E 497003B7
1895 01 0033F 21500000 N
1896 01 00340 68100369
1897 01 00341 B2A00341
1898 01 00342 22000000 A
1899 01 00343 750A0000 X
1900 01 00344
1901 01 00344 32C0001C N
1902 01 00345 6A800395
1903 01 00346 6AB00381
1904 01 00347 6840034E
1905
1906 01 00348 32C003B3
1907 01 00349 32F0001C N
1908 01 0034A 702A0000 X
1909 01 0034B 6840034D
1910 01 0034C 32F0001D N
1911 01 0034D 6A800396
1912 01 0034E
1913 01 0034E 22C00000 A
1914 01 0034F 22E0000A A
1915 01 00350 6A800397
    
```

*** THE TAPE IN A MANNER ANALOGOUS TO ANS, ABOVE. *****

```

*
LW,R5 R7
AI,R5 0BATAPE AVRX
BLZ AVRZERR
MTB,0 SOLICIT,R5 AVR SOLICITED
BNEZ AVR1
LD,D3 AVRTBL,R5
CW,D4 YC1FF
BANZ AVRZERR BUSY=IGNORE
LW,D4 AVRN0U,R5
BNEZ AVRZERR BUSY ALSO
EQU *
LW,SR3 * SET PACK FLAG
OR,R7 XFF0A00
CI,R5 AVRTBLSIZ IF PACK, JUST READ VT0C
BGE RDILBL
LW,SR3 ** SET TAPE FLAG
LI,R0 0
STB,0 AVRFLGS,5 INITIALIZE AVRFLGS
EQU *
LW,R12 Y08 REWIND
BAL,SR1 POSTAPE
BAL,SR4 GETFLG1
BCR,4 NOCC NO CODE CONVERSION ON DRIVE
* SET CODE CONVERSION MODE
LW,R12 MCFC
LW,R15 Y08 EBCDIC
LC AVRFLGS,R5
BAZ $+2
LW,R15 Y1 ASCII
BAL,SR1 POSTAPE1
EQU *
LI,R12 0 READ TAPE
LI,R14 10 COUNT
BAL,SR1 READTAPE
    
```

AVR1

REAVR

NOCC

HO1 17142 SEP 08, 175

1953	01	00370	6930038A
1954	01	00371	32E00001 N
1955	01	00372	22900000 A
1956	01	00373	35E00006 N
1957	01	00374	32800380
1958	01	00375	70200009 A
1959	01	00376	68F00378
1960	01	00377	73200008 A
1961	01	00378	35800000 X
1962	01	00379	22100000 N
1963	01	0037A	6AB00000 X
1964	01	0037B	32E00006 N
1965	01	0037C	22600000 A
1966	01	0037D	12CA0000 X
1967	01	0037E	32F0000D A
1968	01	0037F	6800023D
1969	01	00380	076B407B A

DBSRCH

MSGT

BNE	AVRLBERR
LW,D3	J,BASE+1
LI,SR2	0
STW,D3	JIBASE+6
LW,SR1	MSGT
LC	SR2
BCR,15	*+2
MTB,2	SR1
STW,SR1	JIBASE
LI,1	JIBASE
BAL,11	OCQUEUE
LW,D3	J,BASE+6
LI,R6	0
LD,D1	AVRTBL,R5
LW,D4	D2
B	GETAVR1
GEN,8,24	7,1, #1

NOT LABELED
 FETCH SN
 MOUN KEYIN
 SAVE SN

MAKE MESSAGE

ANBSN 6 BYTES

RESTORE SN
 NO ID
 OLD AVRTBL
 FLAGS
 TRUNDLE INTO MOUNT LOGIC

1970
 1971 01 00381
 1*
 1972
 1973
 1974
 1*
 1975 01 00381 441002C0
 1976 01 00382 72120000 X
 1977 01 00383 70220000 X
 1978 01 00384 F800000B A

GETFLG1 PAGE EQU *

 D NAME: GETFLG1
 , DESCRIPTION SETS THE CONDITION CODES FROM THE TB,FLGS1 ENTRY
 , FOR THE TAPE DRIVE WHOSE AVRX IS IN R5.

 ANLZ,R1 DCTX COMPUTE DCT INDEX
 LB,1 DCT4,1
 LC TB:FLGS1,1
 B *SR4

1979
1*
1980
1981
1982
1*
1983 01 00385 6A10032D
1984 01 00386 0E40C1E5 A
01 00387 D940C961 A
01 00388 D640C5D9 A
01 00389 D9D6D940 A
1*
1985
1986
1987
1*
1988 01 0038A 6A10032D
1989 01 0038B 1040C1E5 A
01 0038C D940D3C1 A
01 0038D C2C5D340 A
01 0038E C5D9D9D6 A
01 0038F D9404040 A
1*
1990
1991
1992
1*
1993 01 00390 6A10032D
1994 01 00391 0F40C1E5 A
01 00392 D940C4D9 A
01 00393 C9E5C540 A
01 00394 C2E4E2E8 A

PAGE

0 MESSAGE: YNDD AVR I/O ERROR
0 MEANING: I/O ERROR OCCURRED TRYING TO READ THE LABEL
0 ACTION: TRY A DIFFERENT DRIVE OR GIVE UP.

AVRIBERR BAL,1 AVRS*1
TEXTC I AVR I/O ERROR!

0 MESSAGE: YNDD AVR LABEL ERROR
0 MEANING: NO RECOGNIZABLE LABEL COULD BE FOUND
0 ACTION: USE MOUNT KEYIN OR GIVE UP

AVRLBERR BAL,1 AVRS*1
TEXTC I AVR LABEL ERROR!

0 MESSAGE: YNDD AVR DRIVE BUSY
0 MEANING: DRIVE IS NOT TAPE OR PACK OR IS IN USE ALREADY.
0 ACTION: REQUEST DRIVE AND TRY AGAIN OR GIVE UP

AVRBZERR BAL,1 AVRS*1
TEXTC I AVR DRIVE BUSY!

1995
 1996 01 00395
 1*
 1997
 1998
 1999
 2000
 2001
 1*
 2002 01 00395 22F00000 A
 2003 01 00396
 2004 01 00396 22E00000 A
 2005 01 00397
 2006 01 00397 120003A8
 2007 01 00398 15000006 N
 2008 01 00399 32100000 X
 2009 01 0039A 72120000 N
 2010 01 0039B 25100009 A
 1* 01 0039C 20100004 N
 2012 01 0039D 22D00000 N
 2013 01 0039E 49C00007 A
 1* 01 0039F 32000001 A
 2* 01 003A0 20000002 A
 2015 01 003A1 6AB00000 X
 2016 01 003A2 680003AE
 2017 01 003A3 32000004 N
 2018 01 003A4 3100001C N
 2019 01 003A5 68100385
 2020 01 003A6 F8000008 A
 2021
 2023
 2024 01 003A8 B5C0000A A
 2025 01 003A9 F800000B A

PAGE EQU \$
 POSTAPE EQU \$

 D NAME1 POSTAPE
 , ENTRY: POSTAPE1, READTAPE
 , DESCRIPTION ROUTINE SETS UP AND PERFORMS TAPE I/O OPERATIONS
 , VIA NEWQ. POSTAPE ENTRY FORCES 1 RECORD, SIZE 0,
 , POSTAPE1 FORCES SIZE ZERO, READTAPE FORCES NEITHER.

 POSTAPE1 EQU \$
 READTAPE EQU \$
 LI,R15 0 #RECORDS
 EQU \$
 LI,R14 0 *,SIZE
 EQU \$
 LD,0 EAPR0G PUT EA IN JIBASE
 STD,0 JIBASE+6
 LW,R1 SICUN FIND IT PHYSICALLY
 LOAD,R1 UX,JIT,R1
 SLS,R1 9
 AI,1 JIBASE+JIJIT+4
 LI,13 BA(JIBASE) BUFFER ADDRESS
 BR,R12 R7
 LW,0 1
 AI,0 2
 BAL,SR4 NEWQ
 B DEVICEDOWN
 LW,R0 JIBASE+4 GET END ACTION INFO
 CW,R0 Y08 I/O ERROR
 BGE AVRIBERR YEP
 B *SR1
 *
 BOUND B
 EAPR0G STW,12 *R10
 B *SR4

2026
2027

PAGE
SPACE 3

2028 01 003AA

CCERR EQU *

1*
2*

0 MESSAGE: YNDD ASCII TAPE
0 ACTION REBOUNT ON DRIVE WITH ASCII OPTION, OR ABORT JOB
** MEANING TAPE IS IN ASCII CODE AND CAN BE READ ONLY ON NS TAPE
** DRIVES WITH THE CODE CONVERSION OPTION.

2030
2031
2032

1*

2033 01 003AA 6A10032D
2034 01 003AB 0B40C1E2 A
01 003AC C3C9C940 A
01 003AD F3C1D7C5 A

BAL,1 AVRS*1
TEXTC ' ASCII TAPE'

2035 01 003AE

DEVICEDOWN EQU *

1*
2*

0 MESSAGE: YNDD DEVICE DOWN
** ACTION USE ANOTHER DRIVE
** MEANING DEVICE CURRENTLY PARTITIONED OUT OF SYSTEM

2037
2038

1*

2039 01 003AE 6A10032D
2040 01 003AF 0C40C4C5 A
01 003B0 F5C9C3C5 A
01 003B1 40C4D6E6 A
01 003B2 D5404040 A

BAL,1 AVRS*1
TEXTC ' DEVICE DOWN'

2041

SPACE 3

2042

2043 01 003B3 00000000 N
2044 01 003B4 564F4C31 A
2045 01 003B5 E5D6D3F1 A
2046 01 003B6 7AD3C2D3 A
2047 01 003B7 0OFF0A00 A

*
MCFC GEN,8,24 FCMC,0
ASCVBL1 DATA X'564F4C31' ASCII VBL1
VBL1 TEXT 'VBL1'
ILBL TEXT 'ILBL'
XFF0A00 DATA X'FF0A00'

H01 17142 SEP 08, '75
2048 01 00388 00000088 A X88 DATA X'88'

2049
 2051
 2052
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 2054
 2055
 2056
 2057
 2058
 2059
 2060
 2061
 2062
 1*
 2*
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 4*
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 11*
 12*
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 15*
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 18*
 19*
 20*
 21*
 22*
 23*
 24*

01 003B9

```

KIREQ PAGE
RES 0 REQUEST KEYIN
*****
*F* NAME: KIREQ
*F*
*F* PURPOSE: TO PROCESS THE IREQUEST RT: (RESOURCE-TYPE) FORM OF
*F* THE IREQUEST: KEYIN.
*F*
*F* DESCRIPTION: SCANS THE AVR TABLES FOR AN AVAILABLE RESOURCE
*F* OF THE TYPE SPECIFIED; THE OPERATOR IS THEN NOTIFIED
*F* OF ITS AVAILABILITY OR OF THE NEED TO DISMOUNT A
*F* VOLUME.
*****
*D* NAME: KIREQ
*D*
*D* ENTRY: KIREQND
*D*
*D* CALL: KEYIN FORMAT: REQUEST |RESOURCE-TYPE|
*D* INDD |
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D* SHIRNM, SBIRTY, TBIFLGS, DCT4
*D*
*D* INTERFACE: GKIFLD, CKFREE, QUEUE
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: GKIFLD IS CALLED TO OBTAIN THE RESOURCE-TYPE
*D* OR DEVICE ADDRESS. IF A 2-CHARACTER OPTION IS
*D* PRESENT, IT IS ASSUMED TO BE A RESOURCE-TYPE AND
*D* SHIRNM IS SEARCHED FOR A MATCH. SBIRTY IS THEN
*D* PICKED UP AND DCT4 IS SCANNED FOR A DEVICE-TYPE
*D* MATCH. FOR EACH MATCH, CKFREE IS CALLED TO
*D* DETERMINE IF THE DEVICE IS AVAILABLE. IF A DEVICE
*D* ADDRESS WAS SPECIFIED, DEVCK IS CALLED TO OBTAIN THE
*D* DCT INDEX OF THE DEVICE, TBIFLGS IS CHECKED TO INSURE
    
```

H01 17142 SEP 08, 175

25*
26*
27*
28*
29*
30*
31*
32*
33*
34*

2063			
2064	01	003B9	4AB00050
2065	01	003BA	49800066
2066	01	003BB	33EE0004 A
2067	01	003BC	493003DA
2068	01	003BD	22100003 A
2069	01	003BE	32EE0005 A
2070	01	003BF	25E00070 A
2071	01	003C0	2240000A A
2072	01	003C1	21E0D4E3 A
2073	01	003C2	483003CF
2080	01	003C3	2240000B A
2081	01	003C4	21E0C4D7 A
2082	01	003C5	483003CF
2083	01	003C6	53F0000E A
2085	01	003C7	22200000 N
2085	01	003C8	51E40000 X
2086	01	003C9	483003CC
2087	01	003CA	442003C8
2088	01	003CB	48000066
2089			
2090	01	003CC	72440000 X
2091	01	003CD	70280000 X
2092	01	003CE	48800066
2093			
2094			
2095	01	003CF	22200000 N

D
D
D
D
D
D
D
D
D
D

123

THAT THE DEVICE IS A TAPE OR PACK, AND CKFREE IS CALLED TO DETERMINE IF THE DEVICE IS AVAILABLE. WHEN THE SPECIFIED DEVICE OR A DEVICE OF THE SAME RESOURCE TYPE SPECIFIED IS FOUND TO BE AVAILABLE, AN APPROPRIATE MESSAGE IS SENT TO THE OPERATOR:
 NDD (IF THE DEVICE IS READY)
 NDD DISMOUNT SCRATCH REEL #
 NDD DISMOUNT AND SAVE REEL #
 OTHERWISE THE OPERATOR IS TOLD TO TRY LATERI.

BAL,SR4	GKIFLD	
BCS,8	KEYERR	
MTW,-2	KFL,R7	
BNEZ	KIREQNDD	NDD
LI,R1	3	LATER INDEX
LW,D3	KPLB,R7	
SLS,D3	=16	
LI,R4	10	
CI,D3	IMT,	
BE	REQTY	
LI,R4	X'BI	
CI,D3	IDP1	
BE	REQTY	
MTH,-1	D3	GETSIGN EXTENDED...
LI,R2	SVIRSIZ	
CH,D3	SHIRNM,R2	TEST FOR RESOURCE TYPR
BE	REQRS	FOUND ONE
BDR,R2	*=2	TEST AGAIN
B	KEYERR	NO MATCH=ERROR
* REQRS	LB,R4	GET DEVICE TYPE
	LC	FIND OUT WHAT KIND
	BCR,8	NOT TAPE OR PACK =-ERROR
* CHECK FOR FIRST AVAIL	KEYERR	
* TYPE IN	R4	
* REQTY	LI,R2	=AVRTBLNE

H01 17:42 SEP 08, '75

2096	01	003D0	22300000	N		LI,R3	BATAPE		
2097	01	003D1	2140000A	A	REQTY1	CI,R4	10		
2098	01	003D2	683003D6			BE	REQTY2=1		
2099	01	003D3	72C60000	X		LR,D1	DCT4,R3		
2100	01	003D4	31C00004	A		CW,D1	R4	TYPE	
2101	01	003D5	693003D7			BNE	REQTY2		
2102	01	003D6	6A5003E9			BAL,5	CKFREE		
2103	01	003D7	20300001	A	REQTY2	AI,R3	1		
2104	01	003D8	652003D1			BIR,R2	REQTY1		
2105	01	003D9	68000068			B	KEYERR1	NONE	LATER=R1

2175
 2176 01 003DA
 2177
 2178
 2179
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 2181
 2182
 2183
 2184
 1*
 2186
 2187
 2188
 2189 01 003DA 322E0005 A
 2190 01 003DB 25200170 A
 2191 01 003DC 6AB00000 X
 2192 01 003DD 69800066
 2193 01 003DE 72440000 X
 2194 01 003DF 70280000 X
 2195 01 003E0 68800066
 2196 01 003E1 22100003 A
 2197 01 003E2 20200000 N
 2198 01 003E3 6A5003E9
 2199 01 003E4 68000068
 2200 01 003E5 32C0041B
 2201 01 003E6 35C3FFFA A
 2202 01 003E7 6AB00000 X
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*

PAGE
 KIREQND RES 0

 F NAME: KIREQND
 F
 F PURPOSE: TO PROCESS THE IREQUEST NDD FORM OF THE IREQUEST
 F KEYIN.
 F
 F DESCRIPTION: THE DEVICE ADDRESS IS VALIDATED AND THE
 F APPROPRIATE AVR TABLE ENTRIES ARE CHECKED TO SEE IF
 F THE DEVICE IS AVAILABLE; THE OPER. IS THEN NOTIFIED
 F APPROPRIATELY.

 *
 LW,R2 KPLB,R7
 SLD,R2 =16
 BAL,SR4 DEVCK DEVICE POINTER IN R2
 BCS,8 KEYERR
 LB,R4 DCT4,R2
 LC TBIFLGS,R4 GET DEVICE TYPE
 BCR,8 KEYERR NOT TAPE OR PACK
 KIREQND6 LI,R1 3 LATER
 AI,2 =BATAPE=AVRTBLNE
 BAL,R5 CKFREE
 B KEYERR1 LATER
 KIRQUE LW,D1 KIREQBK
 STW,D1 KIREQBLK=KIREQ111=20,R1
 KIRQUE1 BAL,SR4 QUEUE

 0 MESSAGE: NDD
 0
 0 MEANING: THE REQUESTED UNIT IS EMPTY
 0
 0 ACTION: NONE
 *0*****
 0 MESSAGE: NDD DISMOUNT SCRATCH REEL *
 0

H01 17142 SEP 08, '75

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11*
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21*

```

*0*      MEANING: THE SCRATCH TAPE ON TAPE DRIVE 'NDD' IS NO LONGER
*0*      NEEDED.
*0*
*0*      ACTION:  DISMOUNT TAPE SPECIFIED BY 'REEL #' IF THE TAPE DRIVE
*0*      IS NEEDED.
*0*****
*0*      MESSAGE:  NDD DISMOUNT AND SAVE REEL #
*0*
*0*      MEANING:  THE TAPE ON TAPE DRIVE 'NDD' IS NO LONGER NEEDED.
*0*
*0*      ACTION:  DISMOUNT TAPE SPECIFIED BY 'REEL #' AND SAVE.
*0*****
          B              KEYINR              EXIT

```

2203 01 003EB 6800006D

01 003F9

```

PAGE
EQU
CKFREE
*****
*F* NAME: CKFREE
*F*
*F* PURPOSE: SUBROUTINE TO DETERMINE IF A SPECIFIED TAPE OR PACK
*F* IS FREE.
*F*
*F* DESCRIPTION: SEE IDI REPORT
*****
*D* NAME: CKFREE
*D*
*D* CALL: BAL,R5 (SEE DESCRIPTION BELOW)
*D*
*D* INPUT: R2 = X*BATAPE-AVRTBLNE
*F* (WHERE X = DCTX OF DEVICE TO BE CHECKED)
*F* AVRTBL, AVRNOU, AVRID
*D*
*D* OUTPUT: ANSFLGS, AVRFNMT
*D*
*D* REGISTERS: ONLY R2 AND R3 ARE PRESERVED
*D*
*D* INTERFACE: RAT,DCT4, GMB
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: THE AVR TABLES (AVRTBL, AVRNOU, AVRID) ARE
*F* SCANNED TO DETERMINE IF THE SPECIFIED DEVICE IS IN
*F* USE. IF IN USE, RETURN IS MADE TO BAL+1; IF NOT IN
*F* USE, MISCELLANEOUS AVR TABLES ARE ZEROED (ANSFLGS,
*F* AVRFNMT); GMB IS CALLED TO OBTAIN A BUFFER, AN
*F* APPROPRIATE MESSAGE IS FORMATTED AND CKFREE EXITS TO
*F* KIRQUE (IN KIRQND) TO ISSUE THE MESSAGE.
*****

```

```

36* 01 003E9 22E00000 A
2207 01 003EA 22F00000 A

```

```

LI,D3 0
LI,D4 0

```


H01 17:42 SEP 08, '75

2208	01	003ER	6D000037	A		WD,0	X'137'	D
2209	01	003EC	12C40000	F		LD,01	AVRTBL,AVRTBLNE,AVRTBLNE,2	
2210	01	003ED	20200000	N		AI,2	AVRTBLNE	ADJUST OFFSET
2211	01	003EE	21200000	N		CI,2	AVRTBLSIZ	TAPE
2212	01	003EF	681003F4			BGE	CKF7	NO
1*	01	003F0	53040000	X	CKF5	MTH,0	AVRID,2	IN USE
2214	01	003F1	68300421			BEZ	CKZER01	NO
2215	01	003F2	20200000	N	CKF6	AI,2	=AVRTBLNE	ADJUST OFFSET
2216	01	003F3	68000408			B	CKF10	RETURN
2217	01	003F4	31D00000	X	CKF7	CW,D2	Y18	VER OR INIT SET
2218	01	003F5	694003F2			BANZ	CKF6	YES, CAN'T USE IT NOW
2219	01	003F6	20D00000	A		AI,13	0	IS IT PUBLIC
2220	01	003F7	691003FB			BLZ	CKF8	MAYBE
2221	01	003F8	53040000	X		MTH,0	AVRNOU,2	IS IT IN USE
2222	01	003F9	68300421			BEZ	CKZER01	NO, WE CAN DISMOUNT
2223	01	003FA	680003F2			B	CKF6	YES, RETURN
2224	01	003FB	20C00000	A	CKF8	AI,12	0	
2225	01	003FC	683003F2			BEZ	CKF6	SYSTEM PACK, RETURN
2226	01	003FD	52B40000	X		LH,SR4	AVRNOU,2	IS PRIV MARKED PUBLIC
2227	01	003FE	21B00001	A		CI,SR4	1	IS GHOST THE ONLY USER
2228	01	003FF	693003F2			BNE	CKF6	NO, CAN'T HAVE IT
2229	01	00400	55E40000	X		STH,14	AVRNOU,2	YES, ZAP # USERS
2230	01	00401	55E40000	X		STH,14	AVRID,2	AND MAYBE LOCK FLAG
2231	01	00402	20200000	N		AI,2	BATAPE	
2232	01	00403	6AB00000	X		BAL,11	RAT,0CT4	
2233	01	00404	53F20000	X		MTH,=1	SHIRGCU,1	
2234	01	00405	35B00000	X		STW,SR4	SIMBSF	KICK BATCH SCHEDULER
2235	01	00406	20200000	N		AI,2	=BATAPE	AVR INDEX
2236	01	00407	68000421			B	CKZER01	AND GO DISMOUNT IT
2237	01	00408			CKF10	EQU	\$	
2238	01	00408	6D000027	A		WD,0	X'127'	E
2239	01	00409	680A0000	A		B	0,R5	NO
2240	01	0040A	5A5A4040	A	KIREQ111	TEXT	'	
2241	01	0040B	C1F0F040	A	KIREQDD	TEXT	'A00'	
2242	01	0040C	C4C9E2D4	A		TEXT	'DISMOUNT'	
	01	0040D	D6E4D5E3	A				
2243	01	0040E	40E2C3D9	A	KIREQT1	TEXT	'SCRATCH'	4

2244	01	0040F	71E3C3C8	A				
2245	01	00410	40404040	A	KIREGT2	TEXT	'	'
2246	01	00411	40404040	A	*			REEL NR
2247		01	00412		KIREQDCB	EQU	*	RELEASE BUFFER
2248	01	00412	00A00003	A		DATA	X'00A00003'	
2249	01	00413	00008001	A		DATA	X'8001'	DCTX
2250	01	00414	00000000	A		PZE	0	
2251	01	00415	00000000	A		PZE	0	
2252	01	00416	00000000	A		PZE	0	
2253	01	00417	00000000	A		PZE	0	
2254	01	00418	00400000	A	KIREQBLK	GEN,15,17	32,0	
2255	01	00419	01000000	A	KIREQBF	GEN,8,8,16	1,0,0	FCN,0,QBUF
2256	01	0041A	00000000	A		PZE	0	
2257	01	0041B	00100000	A	KIREGBK	GEN,15,17	8,0	
2258	01	0041C	04000008	A	KIREQ8	GEN,8,24	4,KIREQDCB=KIREQ111	
2259	01	0041D	40C1D5C4	A	KIREQSV	TEXT	' AND SAVE '	
	01	0041E	40E2C1E5	A				
	01	0041F	05404040	A				
2260	01	00420	01B7F040	A	KIRC2	DATA	X'C1B7F040'	CONVERSION
1*					*			
2*					*			
3*					*			
4*	01	00421	21200000	N	CKZER01	CI,2	AVRTBLSIZ	
5*	01	00422	68100452			BGE	CKZER03	PACK
6*	01	00423	75E40000	X		STB,D3	ANSFLGS,R2	
7*	01	00424	32300002	A		LW,3	2	AVRX
8*	01	00425	23300018	A		MI,3	6*4	AVRFNMTBLX
9*	01	00426	44100007			ANLZ,1	BAUNIT1	BA AVRFNMTBL
10*	01	00427	49100000	X		OR,1	Y18	EACH ENTRY 24 BYTES
11*	01	00428	61000000	N		MBS,0	BA(X0)	ZAP
12*	01	00429	6800042B			B	CKZER02+1	
13*	01	0042A	6BF0000D	A	CKZER02	INT,D4	D2	SAVE HGP
14*	01	0042B	20200000	N		AI,2	=AVRTBLNE	
15*	01	0042C	15E40000	F	CKZER0	STD,D3	AVRTBL+AVRTBLNE+AVRTBLNE,2	
16*	01	0042D	6D000027	A		WD,0	X'27'	
17*	01	0042E	20200000	N		AI,2	BATAPE+AVRTBLNE	

17:42 SEP 08, '75

18*	01	0042F	32600002	A	LW,6	2	SAVE INDEX
19*	01	00430	4AB00000	X	BAL,SR4	GMB	USES D3,R0,R2,R5
20*	01	00431	68300430		BEZ	*.1	WAIT
21*	01	00432	3210000E	A	LW,R1	D3	
22*	01	00433	3280041C		LW,8	KIREQ8	
23*	01	00434	223FFFECA		LI,R3	=20	
24*	01	00435	3080000E	A	AW,8	D3	SET DCB IN 8
25*	01	00436	32F6041E		LW,D4	KIREQ111+20,R3	MOVE IMAGE TO BUFFER
26*	01	00437	35F20000	A	STW,D4	0,R1	
27*	01	00438	20100001	A	AI,R1	1	
28*	01	00439	65300436		BJR,R3	KIREQFIL	0
29*	01	0043A	66E3FFFBA		AWM,D3	KIREQBF=KIREQ111-20,R1	QBUF SET
30*	01	0043B	52EC0000	X	LM,D3	DCT1,R6	
31*	01	0043C	4BE0000B	N	AND,D3	X7FF	
32*	01	0043D	22F00000	A	LI,D4	0	
33*	01	0043E	22300003	A	LI,R3	3	
34*	01	0043F	25E0017C	A	SLD,D3	=4	
35*	01	00440	25F0007C	A	SLS,D4	=4	
36*	01	00441	6430043F		BDR,R3	KIRCNI	
37*	01	00442	66F3FFED	A	AWM,D4	KIREQDD=KIREQ111-20,R1	NDD
38*	01	00443	21F80000	A	CI,D4	X'80000'	
39*	01	00444	68400449		BCR,4	KIRCNI	
40*	01	00445	21F60000	A	CI,D4	X'60000'	
41*	01	00446	68400449		BCR,4	KIRCNI	
42*	01	00447	30F00420		AW,D4	KIRCNI	
43*	01	00448	35F3FFED	A	STW,D4	KIREQDD,KIREQ111-20,R1	
44*	01	00449			RES	0	
45*	01	00449	20C00000	A	AI,D1	0	
46*	01	0044A	683003E5		BEZ	KIRQUE	SET BYTE COUNT =8
47*	01	0044B	35C3FFF3	A	STW,D1	KIREQT2=KIREQ111-20,R1	REEL NR
48*	01	0044C	7020000D	A	LC	D2	
49*	01	0044D	691003E7		BCS,1	KIRQUE1	
50*	01	0044E	02200030	A	LCI	3	
51*	01	0044F	2AD0041D		LM,D2	KIREQSV	
52*	01	00450	2BD3FFF0	A	STM,D2	KIREQT1=KIREQ111-20,R1	AND SAVE!
53*	01	00451	680003E7		B	KIRQUE1	
54*	01	00452	02200040	A	CKZER03	PUSH	4,R1

H01 17:42 SEP 08, '75

	01	00453	0B100000	N
55*	01	00454	20203C00	N
56*	01	00455	22F10000	A
57*	01	00456	22400004	A
58*	01	00457	22100000	N
59*	01	00458	F0200001	A
60*	01	00459	69C0045F	A
61*	01	0045A	31F20000	A
62*	01	0045B	6840045F	A
63*	01	0045C	D1280001	A
64*	01	0045D	6930045F	A
65*	01	0045E	35420002	A
66*	01	0045F	20100000	N
67*	01	00460	3110000D	N
68*	01	00461	68200458	A
69*	01	00462	02200040	A
	01	00463	0A100000	N
70*	01	00464	6800042A	A

1A2

1A1

AI,R2	BATAPE+X'3C00'
LI,15	X'10000'
LI,R4	4
LI,R1	BGRCFU
LC	*R1
BCS,12	1A1
CW,15	0,R1
BAZ	1A1
CH,R2	*R1,R4
BNE	1A1
STW,R4	2,R1
AI,R1	CFUSIZE
CW,R1	ACNCFU+13
BLE	1A2
PULL	4,R1

NEW FORMAT
CFUPRIVBIT
WA(DCTX)

IT'S IN USE

NOT PRIVATE

NO HIT

B

CKZER02

2269
 2270 01 00465
 2271
 2272
 2273
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 2276
 2277
 2278
 2279
 2280 01 00465 22D00001 A
 2281 01 00466 21800040 A
 2282 01 00467 68300469
 2283 01 00468 22D00000 A
 2284 01 00469 35D00000 X
 2285 01 0046A 6800006D

```

PAGE
KIRAD1ST RES 0
*****
*F* NAME: KIRAD1ST
*F*
*F* PURPOSE: TO PROCESS THE 'PREFER' KEYIN.
*F*
*F* DESCRIPTION: INITIALIZES THE CELL RAD1ST (0 MEANS 'PREFER
*F* DPI, 1 MEANS 'PREFER RAD').
*****
*
LI,D2 1
CI,SR1 1 1
BE 8+2
LI,D2 0
STW,D2 RAD1ST
B KEYINR

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2286
2287 01 0046B

```

PAGE
EQU *
*****
*F* NAME: SKIN
*F*
PURPOSE: TO PROCESS THE (SY,OPTION) FORM OF THE SYMBIONT KEYI
*F*
DESCRIPTION: FINDS AN APPROPRIATE SYMBIONT BASED ON THE
*F* SPECIFIED DEVICE-TYPE (YY) AND MERGES INTO THE SKEYIN
*F* ROUTINE.
*****
*D* NAME: SKIN
*D*
ENTRY: SKEYIN
*D*
CALL: KEYIN FORMAT: SYINDDI,OPTION
*D*
INPUT: R2/R3 = FIRST FIELD OF KEYIN
*D* R7 = ADR OF KEYIN PARAMETER LIST
*D* OH1NM, SNDDX, STBITYP, MXSTRM, RBLIMS, DCT16
*D*
OUTPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D* R2 = DCT INDEX OF SYMBIONT DEVICE
*D* D1(R12) = OPTION CHARACTER
*D*
REGISTERS: ALL ARE VULNERABLE
*D*
INTERFACE: DEVCK, SYMCOM, GKIFLD, NXKICHR, KSGCO
*D*
ENVIRONMENT: MASTER/MAPPED
*D*
DESCRIPTION: IF THE ABBREVIATED FORM OF THE KEYIN WAS USED
*D* (SY), OH1NM IS SCANNED FOR A MATCH AGAINST YY,
*D* STBITYP AND SNDDX ARE USED TO VERIFY THAT SUCH A
*D* DEVICE-TYPE IS A SYMBIONT DEVICE, AND REGISTERS ARE
*D* LOADED FROM DCT16 TO SIMULATE THE SYINDD FORM OF THE
*D* KEYIN. FOR EITHER FORM OF THE KEYIN, DEVCK VERIFIES

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HO1 17:42 SEP 08, 1975

134

27*
28*
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31*
32*

D THE DEVICE ADDRESS, REMOTE BATCH TERMINALS ARE EX-
D CLUDED, AND, IF THE OPTION IS ANYTHING OTHER THAN
D 'F', SYMCOM IS CALLED TO PROCESS IT. THE 'F' OPTION
D CAUSES A KFRMGFC GHOST FUNCTION CODE TO BE PASSED TO
D RBBAT VIA KSGCQ,

2297
2298 01 0046B 23E0004 A
2299 01 0046C 21300003 A
2300 01 0046D 69300489
2301 01 0046E 2180006B A
2302 01 0046F 69300489
2303 01 00470 25200008 A
2304 01 00471 52800002 A
2305 01 00472 22200000 N
2306 01 00473 51840000 X
2307 01 00474 68300477
2308 01 00475 64200473
2309 01 00476 68000066
2310 01 00477 22400000 A
2311 01 00478 72300000 X
2312 01 00479 71260000 X
2313 01 0047A 6830047D
2314 01 0047B 64300479
2315 01 0047C 68000483
2316 01 0047D 21300000 N
2317 01 0047E 68200483
2318 01 0047F 20400000 A
2319 01 00480 69300066
2320 01 00481 72460000 X
2321 01 00482 6800047B
2322 01 00483
2323 01 00483 20400000 A
2324 01 00484 68300066
2325 01 00485 12280000 X
2326 01 00486 25200110 A
2327 01 00487 2280006B A

LW,R3 KFL,R7
CI,3 3
BNE SKEYIN
CI,8 1,1
BNE SKEYIN
SLS,2 8
LH,8 2
LI,2 TYPMNSZ
CH,8 0MINM,2
BE 0+3
BDR,2 0+2
B KEYERR
LI,4 0
LB,3 SNDDX
CB,2 STBITYP,3
BE 0+3
BDR,3 0+2
B SKIN3
CI,3 MXSTRM
BLE SKIN3
AI,4 0
BNEZ KEYERR
LB,4 SNDDX,3
B SKIN2
EQU \$
AI,4 0
BEZ KEYERR
LD,2 DCT16,4
SLD,2 16
LI,8 1,1

SKIN2

SKIN3

HO1 17:42 SEP 08, '75
2328 01 00488 6800048B

B

SKIN1

2329
 2330 01 00489
 2331
 2332
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 2340
 2341
 2342
 2343 01 00489 322E0005 A
 2344 01 0048A 323E0006 A
 2345 01 0048B 00000001
 2346 01 0048B 25200108 A
 2347 01 0048C 6AB00000 X
 2348 01 0048D 69800066
 2349 01 0048E 19200000 X
 2350 01 0048F 68900066
 2351
 2352
 2353 01 00490 09200000 N
 2354 01 00491 6AF00499
 2355 01 00492 680004B7
 2356 01 00493 32C00008 A
 2357 01 00494 08200000 N
 2358 01 00495 6AB00000 X
 2359 01 00496 6800006D
 2360 01 00497 08200000 N
 2361 01 00498 68000066
 2362 01 00499 6AB00039
 2363 01 0049A 69800497
 2364
 2365

SKEYIN PAGE EQU 6

 F NAME: SKEYIN
 F
 F PURPOSE: TO PROCESS THE (SYNDD,OPTION) FORM OF THE SYMBIANT
 F KEYIN.
 F
 F DESCRIPTION: VERIFIES DEVICE ADDRESS (YND) AND EITHER
 F PROCESSES THE F/O/J OPTIONS WITHIN SKEYIN OR CALLS
 F THE SYMCOM ROUTINE IN THE KEYSUB MODULE TO PROCESS
 F ALL OTHERS.

 *
 SKIN1 LW,R2 KPLB,R7
 LW,R3 KPLB+1,R7
 EQU 6
 SLD,R2 8
 BAL,SR4 DEVCK CHECK IF LEGAL DEVICE
 BCS,8 KEYERR
 DB RBCODE
 CLM,R2 RBLMS
 BCR,9 KEYERR
 FIN
 PUSH R2
 BAL,15 SKFCK
 B SKFRM
 LW,D1 SR1
 PULL R2
 BAL,SR4 SYMCOM
 B KEYINR
 SKEYIN2 EQU 6
 PULL R2
 B KEYERR
 SKFCK EQU 6
 BAL,11 NXXICHR
 BCS,8 SKEYIN2

H01 17:42 SEP 08, '75

2366 01 0049B 22300003 A
 2367 01 0049C 718604DF
 2368 01 0049D F830000F A
 2369 01 0049E 6430049C
 2370 01 0049F 20F00001 A
 2371 01 004A0 F800000F A
 2372 01 004A1
 2373 01 004A1 6AB00039
 2374 01 004A2 688004A6
 2375 01 004A3 22900000 A
 2376 01 004A4 359E0005 A
 2377 01 004A5 F800000F A
 2378 01 004A6 2180007D A
 2379 01 004A7 69300497
 2380 01 004A8 6AB00050
 2381 01 004A9 69800497
 2382 01 004AA 22900005 A
 2383 01 004AB 30900007 A
 2384 01 004AC 321E0004 A
 2385 01 004AD 201FFFFFFF A
 2386 01 004AE 68200497
 2387 01 004AF 21100004 A
 2388 01 004B0 69200497
 2389 01 004B1 F2420009 A
 2390 01 004B2 2140007D A
 2391 01 004B3 69300497
 2392 01 004B4 22400040 A
 2393 01 004B5 F5420009 A
 2394 01 004B6 F800000F A
 2395 01 004B7
 2396 01 004B7 22C000FF A
 2397 01 004B8 22DFFFFFFF A
 2398 01 004B9 22EFFFFFFF A
 2399 01 004BA 680604BA
 2400 01 004BB 680004C9
 2401 01 004BC 680004CC
 2402 01 004BD 6AB004E0

SKFSET

SKFRM

SKFRM₁

SKFJ

LI,3 3
 CB,8 FKIC,3
 BE *15
 BDR,3 *2
 AI,15 1
 B *15
 EQU *
 BAL,11 NXKICHR
 BCR,8 *4
 LI,9 0
 STW,9 KPLB,7
 B *15
 CI,8 '111
 BNE SKEYIN2
 BAL,11 GKIFLD
 BCS,8 SKEYIN2
 LI,9 KPLB
 AW,9 7
 LW,1 KFL,7
 AI,1 =1
 BLEZ SKEYIN2
 CI,1 4
 BG SKEYIN2
 LB,4 *9,1
 CI,4 '111
 BNE SKEYIN2
 LI,4 '1
 STB,4 *9,1
 B *15
 EQU *
 LI,12 X'FF'
 LI,13 =1
 LI,14 =1
 B *3
 B SKFF
 B SKFB
 BAL,11 @CPCK

H01

17:42 SEP 08, '75

138

2403 01 004BE 6AF004A1
 2404 01 004BF 320E0005 A
 2405 01 004C0 693004C3
 2406 01 004C1 22C00000 A
 2407 01 004C2 680004CF
 2408 01 004C3 6AF00000 X
 2409 01 004C4 69800497
 2410 01 004C5 21100021 A
 2411 01 004C6 69200497
 2412 01 004C7 32C00001 A
 2413 01 004C8 680004CF
 2414 01 004C9 6AF004A1
 2415 01 004CA 32DE0005 A
 2416 01 004CB 680004CF
 2417 01 004CC 6AB004E0
 2418 01 004CD 6AF004A1
 2419 01 004CE 32EE0005 A
 2420 01 004CF 2180006B A
 2421 01 004D0 693004D4
 2422 01 004D1 6AF00499
 2423 01 004D2 680004BA
 2424 01 004D3 68000497
 2425 01 004D4 08200000 N
 2426 01 004D5 6AB00000 X
 2427 01 004D6 680004D8
 2428 01 004D7 68000066
 2429 01 004D8 25C00008 A
 2430 01 004D9 20C00000 N
 2431 01 004DA 25300010 A
 2432 01 004DB 49C00003 A
 2433

SKFF

SKFB

SKF1

SKFRM2

*

BAL,15 SKFSET
 LW,0 KPLB,7
 BNEZ \$+3
 LI,12 0
 B SKF1
 BAL,15 DECONV
 BCS,8 SKEYIN2
 CI,1 33
 BG SKEYIN2
 LW,12 1
 B SKF1
 EQU \$
 BAL,15 SKFSET
 LW,13 KPLB,7
 B SKF1
 EQU \$
 BAL,11 BCPCK
 BAL,15 SKFSET
 LW,14 KPLB,7
 EQU \$
 CI,8 1,1
 BNE SKFRM2
 BAL,15 SKFCK
 B SKFRM1
 B SKEYIN2
 EQU \$
 PULL R2
 BAL,11 SYMTARCK
 B \$+2
 B KEYERR
 SLS,12 8
 AI,12 KFRMGFC
 SLS,3 16
 BR,12 3
 B KSGCQ

FALL THRU TO KSGCQ

2440
 2441 01 004nC
 2442
 2443
 2444
 2445
 2446
 2447
 2448
 2449
 2450
 2451
 2452
 2453 01 004DC 6A400000 X
 2454 01 004DD 68000068
 2455 01 004DE 6800006D
 1*

KSGCQ PAGE EQU \$

 F NAME: KSGCQ
 F
 F PURPOSE: TO PROVIDE A KEYIN INTERFACE TO THE SGCQ ROUTINE IN
 F COOP.
 F
 F DESCRIPTION: BALS TO SGCQ WITH THE NORMAL RETURN GOING TO
 F KEYINR (KEYIN EXIT) AND THE ERROR RETURN
 F GOING TO KEYERR1 ('LATER' MESSAGE AND EXIT).

 *
 BAL,4 SGCQ
 B KEYERR1
 B KEYINR
 SPACE S

2456 01 004DF 40C6D6D1 A
 2457 01 004FO 004F0
 2458 01 004E0 22100000 N
 2459 01 004E1 68300497
 2460 01 004E2 82100000 X
 2461 01 004E3 72120000 X
 2462 01 004E4 21100000 N
 2463 01 004E5 69300497
 2464 01 004E6 F800000B A

FKIC TEXT 1 FB01
 0CPCK EQU \$
 LI,R1 0CPI0
 BEZ SKEYIN2
 LW,R1 *TSTACK
 LB,R1 DCT4,R1
 CI,R1 0CPTYP
 BNE SKEYIN2
 B *11

2466
 2467 01 004F7
 2468
 2469
 2470
 2471
 2472
 2473
 2474
 2475

1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*

2476
 2477 01 004E7 22400000 N
 2478 01 004E8 68300066
 2479 01 004E9 22400000 A
 2480 01 004EA 72100000 X
 2481 01 004EB 72320000 X
 2482 01 004EC 21300001 A
 2483 01 004ED 683004FB
 2484 01 004EE 641004EB
 2485 01 004EF 21400001 A
 2486 01 004F0 69300066
 2487 01 004F1 122A0000 X
 2488 01 004F2 25200110 A
 2489 01 004F3 221000E2 A

KISTSY PAGE EQU 8

 F NAME: KISTSY
 F
 F PURPOSE: TO PROCESS THE 'SSI' (START SYMBIANT) KEYIN.
 F
 F DESCRIPTION: IF ONLY 1 LOCAL INPUT SYMBIANT EXISTS, AN
 F 'SYND0,I' KEYIN IS SIMULATED TO GET IT GOING.

 D NAME: KISTSY
 D
 D CALL: KEYIN FORMAT: SS
 D
 D REGISTERS: ALL ARE VULNERABLE
 D
 D ENVIRONMENT: MASTER/MAPPED
 D
 D DESCRIPTION: SNDDX IS SCANNED AND IF ONLY 1 INPUT SYMBIANT
 D IS PRESENT, A 'SYND0,I' KEYIN IS SIMULATED FOR THAT
 D SYMBIANT ('SYND0,I' IS PLACED IN KEYINBUF) AND KEYIN
 D IS RE-ENTERED AT THE TOP.

	LI,R4	SNDDX	
	BEZ	KEYERR	NON-SYMBIANT SYSTEM
	LI,R4	0	
	LB,R1	SNDDX	NO. OF SYMBIANT DEVICES
KISTSY0	LB,R3	SYMx,R1	
	CI,R3	1	
	BE	KISTSY2	YES
KISTSY1	BDR,R1	KISTSY0	NO-LOOP
	CI,R4	1	WAS THERE ONLY 1 INP. SYMB.
	BNE	KEYERR	NO-ERROR
	LD,R2	DCT16,R5	!
	SLD,R2	16	
	LI,R1	'SI'	

H01 17:42 SEP 08, '75

141

2490 01 004F4 75100002 A
 2491 01 004F5 22100001 A
 2492 01 004F6 22406BC9 A
 2493 01 004F7 55420003 A
 2494 01 004F8 02200020 A
 2495 01 004F9 2B200000 X
 2496 01 004FA 68000027
 2497
 2498 01 004FB 72220000 X
 2499 00000001
 2500 01 004FC 19200000 X
 2501 01 004FD 689004EE
 2502
 2503 01 004FE 32500002 A
 2504 01 004FF 20400001 A
 2505 01 00500 680004EE

* KISTSY2

STB,R1 R2
 LI,R1 1
 LI,R4 1,1,
 STH,R4 R3,R1
 LCI 2
 STM,R2 KEYINBUF
 B KEYIN20
 LR,R2 SNDDX,R1
 DB RBCODE
 CLM,R2 RBLIMS
 BCR,9 KISTSY1
 FIN
 LW,5 2
 AI,R4 1
 B KISTSY1

MAKE NAME SYMBIONT

STORE AS SNAME,I

KEYIN WILL DO THE REST

GET DCTX

IF THIS IS AN RB DEVICE SKIP OVER I
AND DON'T COUNT AS A CARD READER

BUMP COUNT OF INPUT DCTXIS

1*
2* 01 00501

```

PAGE
ERSEND EQU *
*****
*F* NAME: ERSEND
*F*
*F* PURPOSE: TO PROCESS THE 'ERSEND' KEYIN.
*F*
*F* DESCRIPTION: CAUSES SPECIFIED MESSAGE TO BE PUT INTO THE
*F* ERRORLOG AS A TYPE=27 ENTRY.
*****
*D* NAME: ERSEND
*D*
*D* CALL: KEYIN FORMAT; ERSEND TEXT
*D*
*D* INTERFACE: KRBMVO, ERRLOG, RMB
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: CALLS KRBMVO TO ACQUIRE AN MPOOL BUFFER AND MOVE
*D* THE MESSAGE TEXT FROM KEYINBUF TO THE BUFFER. ERSEND
*D* THEN FORMATS THE BUFFER AS A TYPE=27 ERROR LOG ENTRY
*D* AND CALLS ERRLOG. RMB IS CALLED TO RELEASE THE
*D* MPOOL BUFFER.
*****
*

```

25*
26* 01 00501 6A400526
27* 01 00502 32400003 A
28* 01 00503 204FFFF7 A
29* 01 00504 3260000E A
30* 01 00505 20E00002 A
31* 01 00506 F540000E A
32* 01 00507 20300003 A
33* 01 00508 2530007E A
34* 01 00509 20302700 A
35* 01 0050A 25300010 A
36* 01 0050B 353C0000 A
37* 01 0050C 32300000 X

```

BAL,4 KRBMVO GET AND MOVE MSG
LW,4 3 TOTAL # OF BYTES
AI,4 9 DECREMENT # OF BYTES
LW,6 14 MON BUF ADDR
AI,14 2 POINT TO MSG LOC
STB,4 *14
AI,3 3 ROUND
SLS,3 2 TOTAL NUMBER OF WORDS
AI,3 X'2700' CREATE ERROR MSG HEADER
SLS,3 16 SHIFT INTO POSITION
STW,3 0,6 AND PUT INTO PLACE
LW,3 3 TIME

```

H01

17142 SEP 08, '75

38* 01 0050D 353C0001 A
39* 01 0050E 4A500000 X
40* 01 0050F 20FFFFFFE A
41* 01 00510 22B0006D
42* 01 00511 48000000 X

STW,3 1,6
BAL,5 ERRLOG
AI,14 =2
LI,11 KEYINR
B RMB

INTO BUFFER
RECORD MSG INTO LOG
POINT TO BEGINNING OF MPOOL
COMPLETION EXIT POINT
RELEASE MON BUF.

143

2506
 2507 00000001
 2508
 2509 01 00512
 2510
 2511
 2512
 2513
 2514
 2515
 2516
 2517
 2518
 2519
 2520
 2521 01 00512 22C00000 N
 2522 01 00513 68300066
 2523 01 00514 22C00000 N
 2524 01 00515 21800015 A
 2525 01 00516 69300525
 2526 01 00517 22E00000 A
 2527 01 00518 680004DC
 2528
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10* 01 00519 22C00000 N
 11* 01 0051A 68000520
 12*
 2529 01 0051B
 2530

PAGE DB RBCODE !
 *
 KRBB^CST EQU \$

 F NAME: KRBB^CST
 F
 F PURPOSE: TO PROCESS THE !RBB^CST! KEYIN.
 F
 F DESCRIPTION: CAUSES THE SPECIFIED MESSAGE TO BE PASSED TO
 F RBBAT VIA A SYMBIONT GHOST COMMUNICATION BUFFER;
 F THIS MESSAGE WILL THEN BE BROADCAST TO ALL REMOTE
 F TERMINAL OPERATORS.

 *
 LI,12 OFFBIT PUT MESSAGE IN MESSAGE FILE HEADING
 BEZ KEYERR ALL RBTS. ERROR IF NOT RBSYSTEM.
 LI,12 BCSTGFC MESSAGE R14=0 R12 GET GHOST FUNCTI
 CI,8 X'15! FOR RBB^CST
 BNE KRBMV
 LI,14 0
 B KSGCQ

 F NAME: KRBCOM
 F
 F PURPOSE: TO PROCESS THE !RBCOM! KEYIN
 F
 F DESCRIPTION: PASSES RBBAT A KCOMGFC GHOST FUNCTION CODE FOR
 F PROCESSOR TO PROCESSOR COMMUNICATION.

 *
 LI,12 KCOMGFC
 B KRBC
 *
 KRBS^END EQU \$ SEND A MESSAGE TO THE SPECIFIED RBT

2531
2532
2533
2534
2535
2536
2537
2538
2539

F NAME: KRSEND
F
F PURPOSE: TO PROCESS THE 'RSEND' KEYIN.
F
F DESCRIPTION: CAUSES THE SPECIFIED MESSAGE TO BE PASSED TO
F RBBAT VIA A SYMBIONT GHOST COMMUNICATION BUFFER;
F THIS MESSAGE WILL THEN BE SENT AS THE NEXT PRINT FILE
F TO THE SPECIFIED DEVICE OR WORK STATION.

1*
2*
3*
4*
5*
6*
7*
8*
9*
10*
11*
12*
13*
14*
15*
16*
17*
18*
19*
20*
21*
22*
23*

D NAME: KRSEND
D
D ENTRY: KRBCST, KRBCOM
D
D CALL: KEYIN FORMATS: 'RBCST'
D 'RSEND' TEXT
D 'RBCOM'
D
D INPUT: R7 = ADR OF KEYIN PARAMETER LIST
D
D REGISTERS: ALL ARE VULNERABLE
D
D INTERFACE: KRBV0
D
D ENVIRONMENT: MASTER/MAPPED
D
D DESCRIPTION: VERIFIES THAT REMOTE PROCESSING IS INCLUDED IN
D THE SYSTEM (IF RBCST) OR THAT THE SPECIFIED STATION
D IS ACTIVE (IF RSEND OR RBCOM) AND CALLS KRBV0 TO
D MOVE THE MESSAGE FROM KEYINBUF TO AN MPOOL BLOCK WHICH
D WILL THEN BE PASSED TO RBBAT WITH AN APPROPRIATE GHOST
D FUNCTION CODE (BCSTGFC IF RBCST; SNDGFC IF RSEND;
D KCOMGFC IF RBCOM) VIA THE KSGCQ ROUTINE.

24*
2540
2541
2542
2545

01 0051B 32DE0006 A
01 0051C 7200000D A
01 0051D 21D00005 A

LW,13 KPLB+1,7
LB,13 13
CI,13 INI

H01 17:42 SEP 08, '75
 2546 01 0051E 69300066
 2547 01 0051F 22C00000 N
 2548 01 00520 KRBSC
 2549 01 00520 6AD00544
 2550 01 00521 73040000 X
 2551 01 00522 68300066
 2552 01 00523 25200008 A
 2553 01 00524 49C00002 A
 2554 01 00525 2240053A
 2555 1*

KRBSC

KRBMV
*

BNE KEYERR
 LI,12 SNDGFC
 EGU *
 BAL,13 KRBDCT
 MTB,0 RBBIID,2
 BEZ KEYERR
 SLS,2 8
 BR,12 2
 LI,4 KRBMV4
 B KRBMVO
 FIN

DCTX IS OBTAINED BY KRBDCT. IF RBT
 NOT LOGGED ON OR IF NO MESSAGE ERRO

FOR RBSND
 FALL THRU TO KRBMVO

2556
 2557 01 00526
 2558
 2559
 2560
 2561
 1*
 2563
 2564
 2565
 2566
 1*
 2*
 3*
 4*
 5*
 6*
 7*
 8*
 9*
 10*
 11*
 12*
 13*
 14*
 15*
 16*
 17*
 18*
 19*
 20*
 21*
 22*
 23*
 2567
 2568 01 00526 6AB00000 X
 2569 01 00527 68300068

PAGE
 KRBV0 EQU \$

 F NAME: KRBV0
 F
 F PURPOSE: SUBROUTINE TO MANIPULATE A KEYIN MESSAGE SUPPLIED VIA
 F RBBEST/RBSEND/RBCOM/ERSEND KEYINS*
 F
 F DESCRIPTION: ACQUIRES AN MPOOL BUFFER AND MOVES THE CURRENT
 F MESSAGE IN KEYINBUF INTO THE BUFFER.

 D NAME: KRBV0
 D
 D CALL: BAL,R4 (SEE DESCRIPTION BELOW)
 D
 D INPUT: R7 = ADR OF KEYIN PARAMETER LIST
 D KEYINBUF
 D
 D OUTPUT: R14 = MPOOL BUFFER ADDRESS
 D R3 = NEXT AVAILABLE (BYTE) POSITION IN MPOOL BUFFER
 D
 D REGISTERS: R0, R1, R3 & R11 ARE VULNERABLE
 D
 D INTERFACE: GMB, RMB, KSGCO
 D
 D ENVIRONMENT: MASTER/MAPPED
 D
 D DESCRIPTION: ACQUIRES AN MPOOL BUFFER VIA GMB AND MOVES UP TO
 D 72 CHARACTERS (IGNORING LEADING BLANKS) INTO THE
 D BUFFER. IF CALLED BY KRBEST OR KRSEND, RETURN IS
 D MADE IN SUCH A WAY AS TO CALL SGCQ, RELEASE THE BUFFER
 D VIA RMB AND EXIT, IF CALLED BY ERSEND, RETURN IS TO
 D BAL+1.
 *D*****
 *
 BAL,11 GMB
 BEZ KEYERR, SAY LATER IF NONE

H01 17:42 SEP 08, '75

2570	01	00528	22300001	A
2571	01	00529	2140053A	
2572	01	0052A	6830052C	
2573	01	0052B	22300009	A
2574	01	0052C	321E0001	A
2575	01	0052D	72020000	X
2576	01	0052E	21000015	A
2577	01	0052F	68300539	
2578	01	00530	21300001	A
2579	01	00531	69300534	
2580	01	00532	21000040	A
2581	01	00533	68300536	
2582	01	00534	F506000E	A
2583	01	00535	20300001	A
2584	01	00536	20100001	A
2585	01	00537	21100048	A
2586	01	00538	6820052D	
2587	01	00539		
2588	01	00539	68080000	A
2589	01	0053A	22B00066	
2590	01	0053B	203FFFFFF	A
2591	01	0053C	68200000	X
2592	01	0053D	21300050	A
2593	01	0053E	69200000	X
2594	01	0053F	F530000E	A
2595	01	00540	22B00068	
2596	01	00541	6A400000	X
2597	01	00542	68000000	X
2598	01	00543	6800006D	

KRBMV1

KRBMV2

KRBMV4

LI,3	1
CI,4	KRBMV4
BE	*+2
LI,3	9
LW,1	KCCP,7
LB,0	KEYINBUF,1
CI,0	X'15'
BE	KRBMV2
CI,3	1
BNE	*+3
CI,0	! !
BE	*+3
STB,0	*14,3
AI,3	1
AI,1	1
CI,1	72
BLE	KRBMV1
EQU	*
B	0,4
LI,11	KEYERR
AI,3	=1
BLEZ	RMB
CI,3	80
BG	RMB
STB,3	*14
LI,11	KEYERR1
BAL,4	SGCQ
B	RMB
B	KEYINR

ASSUME RBSEND FIRST
 TRUE...
 YEP
 NOPE, MUST BE ERSEND
 CURRENT CHARACTER POSITION
 GET NEXT CHAR.

EXIT OR FALL THRU

H01 17:42 SEP 08, 1975

2665	01	00560	20B00001	A
2666	01	00561	22400001	N
2667	01	00562	21400000	X
2668	01	00563	F810000B	A
2669	01	00564	20BFFFFF	A
2670	01	00565	F800000B	A
2671	01	00566	64400562	

KRBSPN2

KRBSPN1

AI,11	1
LW,4	RBLIMS+1
CW,4	RBLIMS
BGE	*11
AI,11	*1
B	*11
BDR,4	KRBSPN2

150

ENTRY IS TO KRBSPN AND SUCCESSIVE E
 TO KRBSPN1.
 BAL,11 KRBSPN
 B ALL CHECKED
 IS THIS THE ONE
 BNE KRBSPN1

2674 01 00567

```

PAGE
EQU * DISCONNECT ALL RBTS AND PREVENT NEW
*****
KRBX
NAME: KRBX
PURPOSE: TO PROCESS THE 'RBX' KEYIN
DESCRIPTION: DISCONNECTS AND DISALLOWS CONNECTION OF ONE OR
ALL REMOTE PROCESSING TERMINALS.
*****
NAME: KRBX
ENTRY: KRBDISC, KRBS
CALL: KEYIN FORMATS;  IRBX  I  IRBNDDI
IRBDISCI  IWSN  I
IRBS  I  "  "
INPUT: R7 = ADR OF KEYIN PARAMETER LIST
RBLIMS, RBD:WSN, RBBIID, RBIFLAG
OUTPUT: RBIFLAG
REGISTERS: ALL ARE VULNERABLE
INTERFACE: GKIFLD, DEVCK
ENVIRONMENT: MASTER/MAPPED
DESCRIPTION: 3 HANDLERS AND A SET OF COMMON SUBROUTINES ALLOW
THE OPERATOR TO CONNECT (RBS) OR DISCONNECT (RBX/
RBDISC) REMOTE PROCESSING TERMINALS OR WORK STATIONS
BY VALIDATING THE RBND/WSN INPUT PARAMETER AND
SETTING APPROPRIATE BITS IN RBIFLAG FOR RBBAT.
*****

```

2675 01 00567 22300000 N

LI,3 OFFBIT

H01 17:42 SEP 08, '75

2676	01	00568	68300066	
2677	01	00569	21800015	A
2678	01	0056A	6830056F	
2679	01	0056B	6AD00544	
2680	01	0056C	22300000	N
2681	01	0056D	22500000	N
2682	01	0056E	68000579	
2683		01 0056F		
2684	01	0056F	22500000	N
2685	01	00570	6AB00560	
2686	01	00571	6800006D	
2687	01	00572	6A10057C	
2688	01	00573	68000566	
2689	01	00574	68000566	

KRBX1

BEZ	KEYERR
CI,R8	XI15I
BE	KRBX1
BAL,13	KRBDCT
LI,R3	OFFBIT
LI,R5	RBXBIT+6ADBIT
B	KRBDX
EQU	*
LI,R5	RBXBIT+6ADBIT
BAL,11	KRBSPN
B	KEYINR
BAL,1	KRBD51
B	KRBSPN1
B	KRBSPN1

```

1*
2692      01 00575
1*
2*
3*
4*
5*
6*
7*
8*
2693 01 00575 6AD00544
2694 01 00576 32400002 A
2695 01 00577 22300000 A
2696 01 00578 22500000 N
2697      01 00579
2698 01 00579 6A10057C
2699 01 0057A 6800006D
2700 01 0057B 6800006D
2701
2702
2703      01 0057C
2704 01 0057C 22700000 N
2705 01 0057D 6D000037 A
2706 01 0057E 31780000 X
2707 01 0057F 69400583
2708 01 00580 47380000 X
2709 01 00581 6D000027 A
2710 01 00582 F8000001 A
2711      01 00583
2712 01 00583 47580000 X
2713 01 00584 6D000027 A
2714 01 00585 68020001 A
    
```

```

PAGE
KRBDISC EQU $ DISCONNECT GIVEN RBT.
*****
*F* NAME: KRBDISC
*F*
*F* PURPOSE: TO PROCESS THE 'RBDISC' KEYIN
*F*
*F* DESCRIPTION: DISCONNECTS A REMOTE PROCESSING TERMINAL
*****
*
BAL,13 KRBDCY
LW,4 2
LI,3 0
LI,5 RBXBIT
KRBDCX EQU $
BAL,1 KRBDS1
B KEYINR
B KEYINR
*
*
KRBDS1 EQU $
LI,7 ACTBIT+LIPBIT
DISABLE
CW,7 RBIFLAG,4
BANZ KRBDS2
STS,3 RBIFLAG,4
ENABLE
B +1
KRBDS2 EQU $
STS,5 RBIFLAG,4
ENABLE
B 1,R1
    
```

```

-----
ZAP TERMINALS.
!
IF THE TERMINAL IS CONNECTED STORE
HIS FLAGS CAUSING HIM TO BE HUNG UP
I/O OPERATION. IF HE ISNT CONNECTED
CONTENTS OF R3 SELECTIVELY INTO HIS
BRANCH TO BAL+1 IF NOT CONNECTED,B,
CONNECTED.
    
```

2717 1* 01 00526

```

PAGE
EQU *
RESTART RBTS BY ALLOWING NEW CONNEN
*****
*F* NAME: KRBS
*F*
*F* PURPOSE: TO PROCESS THE (RBS) KEYIN
*F*
*F* DESCRIPTION: ALLOWS CONNECTION OF ONE OR ALL REMOTE PROCESSIN
*F* TERMINALS
*****
*
```

1*
2*
3*
4*
5*
6*
7*
8*
9*

```

2718 01 00586 22000000 A
2719 01 00587 21800015 A
2720 01 00588 68300591
2721 01 00589 6AD00544
2722 01 0058A 22000000 A
2723 01 0058B 22100000 N
2724 01 0058C 21180000 X
2725 01 0058D 68400066
2726 01 0058E 6AD00559
2727 01 0058F 68000066
2728 01 00590 6800006D
2729 01 01 00591
2730 01 00591 22100000 N
2731 01 00592 6AB00560
2732 01 00593 6800006D
2733 01 00594 6AD00559
2734 01 00595 68000566
2735 01 00596 68000566
```

```

LI,0 0
CI,8 X1151
BF KRBS1
BAL,13 KRBDCT
LI,0 0
LI,R1 OFFBIT+0ADBIT
CW,R1 RBIFLAG,R4
BAZ KEYERR
BAL,13 KRBDNCK
B KEYERR
B KEYINR
KRBS1 EQU *
LI,1 OFFBIT+0ADBIT
BAL,11 KRBSPN
B KEYINR
BAL,13 KRBDNCK
B KRBSPN1
B KRBSPN1
```

2740 01 00597

```

PAGE
KRBSWIT EQU *
*****
*F* NAME: KRBSWIT
*F*
*F* PURPOSE: TO PROCESS THE 'RBSWITCH' KEYIN
*F*
*F* DESCRIPTION: SWITCHES OUTPUT FILES FROM ONE WORKSTATION
*F* TO ANOTHER.
*****
*D* NAME: KRBSWIT
*D*
*D* CALL: KEYIN FORMAT; RBSWITCH WSN,DEVICE=TYPE,USER
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D*
*D* OUTPUT: R5/R6 = WORKSTATION NAME
*D* R12 = LENGTH OF WSN (BITS 16-23), SWITGFC (BITS 24-31)
*D* R13 = CONVERTED SYSID (HEX)
*D* R14 = DEVICE=TYPE (LEFT-JUSTIFIED; EBCDIC)
*D* R15/R0 = WORKSTATION NAME
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, CVSYSID, SGCQ2
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: CALLS GKIFLD AND CVSYSID TO FORMAT THE REGISTERS
*D* AS INDICATED ABOVE; THEN CALLS SGCQ2 WITH A GHOST
*D* FUNCTION CODE = SWITGFC TO PASS THE DATA TO RBBAT.
*****

```

2741 01 00597 6AB00050
 2742 01 00598 69800066
 2743 01 00599 325E0005 A
 2744 01 0059A 326E0006 A

```

BAL,11 GKIFLD BUILD TWO COMBUFS AS FOLLOWS
BCS,8 KEYERR
LW,5 KPLB,7 DATA WA(WSN)
LW,6 KPLB*1,7

```

H01 17:42 SEP 08, '75

2745 01 0059B 32CE0004 A
 2746 01 0059C 6AB00050
 2747 01 0059D 69800066
 2748 01 0059E 32EE0004 A
 2749 01 0059F 21E00002 A
 2750 01 005A0 69200066
 2751 01 005A1 32EE0005 A
 2752 01 005A2 25E00470 A
 2753 01 005A3 6AB00050
 2754 01 005A4 69800066
 2755 01 005A5 6AB00000 X
 2756 01 005A6 32D00002 A
 2757 01 005A7 32F00005 A
 2758 01 005A8 32000006 A
 2759 01 005A9 25C00008 A
 2760 01 005AA 20C00000 N
 2761 01 005AB 224004DD
 2762 01 005AC 68000000 X
 2764 01 005AD
 2765 01 005AD 6AB00050
 2766 01 005AE 69800066
 2767 01 005AF 322E0005 A
 2768 01 005B0 323E0006 A
 2769 01 005B1 6AD0054C
 2770 01 005B2 21800068 A
 2771 01 005B3 683005B7
 2772 01 005B4 22400000 A
 2773 01 005B5 22C00000 A
 2774 01 005B6 680005BD
 2775 01 005B7
 2776 01 005B7 09200000 X
 2777 01 005B8 6AB00050
 2778 01 005B9 08200000 X
 2779 01 005BA 324E0005 A
 2780 01 005BB 325E0006 A
 2781 01 005BC 32C00000 X
 2782 01 005BD

KRBL0G

KRBLSN

KRBLVN

LW,12 KFL,7
 BAL,11 GKIFLD
 BCS,8 KEYERR
 LW,14 KFL,7
 CI,14 2
 BG KEYERR
 LW,14 KPLB,7
 SAS,14 =16
 BAL,11 GKIFLD
 BCS,8 KEYERR
 BAL,11 CVSYSID
 LW,13 2
 LW,15 5
 LW,0 6
 SLS,12 8
 AI,12 SWITGFC
 LI,4 KSGCQ+1
 B SGCQ2
 EQU *
 BAL,11 GKIFLD
 BCS,8 KEYERR
 LW,2 KPLB,7
 LW,3 KPLB+1,7
 BAL,13 KRBDCK
 CI,8 1,1
 BE KRBLSN
 LI,4 0
 LI,12 0
 B KRBLVN
 EQU *
 PSW,2 TSTACK
 BAL,11 GKIFLD
 PLW,2 TSTACK
 LW,4 KPLB,7
 LW,5 KPLB+1,7
 LW,12 ALBIT
 EQU *

GEN,8,24
TEXT

LINK,0
WSN



H01 17142 SEP 08, 175

2783	01	005BD	32D00000	X
2784	01	005BE	30D00000	X
2785	01	005BF	22100000	N
2786	01	005C0	31140000	X
2787	01	005C1	69400066	
2788	01	005C2	15440000	X
2789	01	005C3	47C40000	X
2790	01	005C4	6800006D	
2791	01	005C5		
2792	01	005C5	22C00000	N
2793	01	005C6	68000520	
2794				

KRBCOM

LW,R13	ALBIT
AW,R13	DCBIT
LI,1	ACTBIT+LIPBIT
CW,1	RB:FLAG,2
BANZ	KEYERR
STD,4	RBDIWSN,2
STS,12	RBIFLAG,2
B	KEYINR
EQU	*
LI,12	KCOMGFC
B	KRBC
FIN	

END SAM KEYS C00 UPDATES

2795
2796
2797
2798
2799
2800
2801
2802
2803
2804
2805

PAGE

F NAME: KIOUPTUT

F

F PURPOSE: TO PROCESS THE !OUTPUT STOP,YYNDD! AND
F !OUTPUT GO,IDI! KEYINS.

F

F DESCRIPTION: SETS UP A GHOST COMMUNICATION BUFFER FOR
F !OUTPUT STOP!, AND SETS THE X!80! BIT OF UH:FLG2
F FOR !OUTPUT GO!.

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24*

D NAME: KIOUPTUT

D

D CALL: KEYIN FORMAT: OUTPUT !STOP,YYNDD!
D !GO,IDI!

D

D INPUT: R7 = ADR OF KEYIN PARAMETER LIST

D

D BUTPUT: UH:FLG2 (IF GO)

D

D REGISTERS: ALL ARE VULNERABLE

D

D INTERFACE: GKIFLD, CVSYSID, GETUSER#, DEVCK, SYMTABCK, KSGCQ

D

D ENVIRONMENT: MASTER/MAPPED

D

D DESCRIPTION: GKIFLD IS CALLED TO GET THE STOP/GO OPTION; IF
D STOP, YYNDD IS OBTAINED BY GKIFLD, DEVCK VERIFIES
D THE DEVICE, SYMTABCK OBTAINS THE SYMTAB INDEX AND A
D KOSTOP GHOST FUNCTION CODE IS PASSED TO RBBAT VIA
D KSGCQ. IF GO, THE SYSID IS OBTAINED BY GKIFLD,
D CONVERTED TO HEX BY CVSYSID, VERIFIED BY GETUSER#,
D AND THE X80 BIT OF UH:FLG2 IS SET.

D

2806 01 005r7
2807 01 005C7 6AB00050

KIOUPTUT EQU *
BAL,11 GKIFLD

H01	17:42	SEP 08, '75				
2808	01	005C8	69800066	BCS,8	KEYERR	
2809	01	005C9	322E0005 A	LW,2	KPLB,7	GET FUNCTION (STOP OR GO)
2810	01	005CA	3120000E	CW,2	TXTSTOP	
2811	01	005CB	683005DB	BE	KOUTSTOP	
2812	01	005CC	3120000F	CW,2	TXTGO	
2813	01	005CD	69300066	BNE	KEYERR	
2814	01	005CE	6AB00050	BAL,11	GKIFLD	GET SYSID
2815	01	005CF	69800066	BCS,8	KEYERR	NO GOOD
2816	01	005D0	6AB00000 X	BAL,11	CVSYSID	CONVERT TO HEX IN R2
2817	01	005D1	69800066	BCS,8	KEYERR	
2818	01	005D2	32600002 A	LW,6	2	USER ID TO R6
2819	01	005D3	6A700000 X	BAL,7	GETUSER#	RETURN USER NUMBER IN R5
2820	01	005D4	68000066	B	KEYERR	
2821	01	005D5	6D000037 A	DISABLE		
2822	01	005D6	522A0000 X	LH,2	UHIFLG2,R5	GET USER FLGS
2823	01	005D7	49200008 N	BR,R2	X80	SET COMODE FLAG FOR USER
2824	01	005D8	552A0000 X	STH,2	UHIFLG2,R5	
2825	01	005D9	6D000027 A	ENABLE		
2826	01	005DA	6800006D	B	KEYINR	
2827						
2828						
2829		01 005DB				
2830	01	005DB	6AB00050	KOUTSTOP EQU	\$	
2831	01	005DC	69800066	BAL,11	GKIFLD	WHAT ARE WE HALTING COMODE ON
2832	01	005DD	322E0005 A	BCS,8	KEYERR	WHATEVER IT WAS, IT WEREN'T NO GOOD
2833	01	005DE	323E0006 A	LW,2	KPLB,7	GET YNDD INTO R2-R3
2834	01	005DF	6AB00000 X	LW,3	KPLB+1,7	
2835	01	005E0	69800066	BAL,11	DEVCK	RETURN DCTX IN R2
2836	01	005E1	6AB00000 X	BCS,8	KEYERR	DEVICE NO GOOD
2837	01	005E2	680005E4	BAL,11	SYMTABCK	GET SYMTABX IN R3
2838	01	005E3	68000066	B	\$+2	SCREWBALL RETURN IF OK
2839	01	005E4	32C00003 A	B	KEYERR	NOT SYMB DEVICE
2840	01	005E5	25C00010 A	LW,12	3	
2841	01	005E6	20C00000 N	SLS,12	16	ALIGN FOR SGCQ
2842	01	005E7	22D00000 A	AI,12	KOSTOP	GFC FOR OUTPUT STOP!
2843	01	005E8	22E00000 A	LI,13	0	
2844	01	005E9	680004DC	LI,14	0	
				B	KSGCQ	GO SETUP RBBAT COMM. BUFFER

1*
 2* 01 005FA
 3*
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 25*
 26*
 27*
 28*
 29*
 30*
 31*
 32* 01 005EA 6AB00050
 33* 01 005EB 69800066
 34* 01 005EC 322E0005 A
 35* 01 005ED 323E0006 A
 36* 01 005EE 6AB00000 X
 37* 01 005EF 69800066

```

PAGE
KIFLUSH EQU $
*****
*F* NAME: KIFLUSH
*F*
*F* PURPOSE: TO PROCESS THE 'FLUSH' KEYIN
*F*
*F* DESCRIPTION: SETS UP A GHOST COMMUNICATION BUFFER FOR 'FLUSH
*F* OUTPUT'.
*****
*D* NAME: KIFLUSH
*D*
*D* CALL: KEYIN FORMAT: FLUSH YYNDD,SYSID
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D* DCT#, SCNTXT, SYMX, SCSVDGI
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, DEVCK, SYMTABCK, CVSYSID
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: DEVCK IS CALLED TO VALIDATE 'YYNDD' FIELD OF THE
*D* KEYIN; SYMTABCK IS CALLED TO CONVERT THE DCT INDEX
*D* TO A SYMTAB INDEX; IF THE SPECIFIED DEVICE IS
*D* CURRENTLY PRINTING/PUNCHING THE SPECIFIED USER'S
*D* OUTPUT, A GHOST COMMUNICATION BUFFER (KIFLUSH) IS
*D* PASSED TO RBBAT VIA KSGCQ.
*****
*
BAL,R11 GKIFLD MOVE YYNDD TO KPL FIELD BUFFER
BCS,8 KEYERR
LW,R2 KPLB,R7 MOVE YYNDD TO REGISTERS
LW,R3 KPLB+1,R7
BAL,R11 DEVCK VALIDATE IT; RETURNS DCTX IN R2
BCS,8 KEYERR
    
```

H01

17:42 SEP 08, '75

161

```

38* 01 005F0 6AB00000 X
39* 01 005F1 680005F3
40* 01 005F2 68000066
41*
42* 01 005F3 72C40000 X
43* 01 005F4 25C00008 A
44* 01 005F5 5530000C A
45* 01 005F6 20C00000 N
46* 01 005F7 6AB00050
47* 01 005F8 69800066
48* 01 005F9 6AB00000 X
49* 01 005FA 69800066
50* 01 005FB 32D00002 A
51* 01 005FC 5230000C A
52* 01 005FD 72160000 X
53* 01 005FE 21100002 A
54* 01 005FF 68400066
55* 01 00600 52160000 X
56* 01 00601 68300066
57* 01 00602 25100001 A
58* 01 00603 22300010 N
59* 01 00604 45220000 X
60* 01 00605 69300066
61* 01 00606 680004DC
3016 01 0001A
01 00607 C1D3D340 A
01 00608 01FF0A00 A
01 00609 F3C3C840 A
01 0060A D7E4C2D3 A
01 0060B D3D6C3D2 A

```

KIF1

```

BAL,R11 SYMTABCK
B KIF1
B KEYERR
J
LB,R12 DCT4,R2
SLS,R12 8
STH,R3 R12
AI,R12 KFLUSH
BAL,R11 GKIFLD
BCS,8 KEYERR
BAL,R11 CVSYSID
BCS,8 KEYERR
LW,R13 R2
LH,R3 R12
LB,R1 SYMX,R3
CI,R1 2
BAZ KEYERR
LH,R1 SCNTXT,R3
BEZ KEYERR
SLS,R1 1
LI,R3 MASKS+16
CS,R2 SCSVDGI,R1
BNE KEYERR
B KSGCB
END START,KEYIN

```

```

GET SYMTAB INDEX IN R3
NORMAL RETURN
ERROR RETURN

GET DEV TYPE

SET UP R12 FOR SGC0M
MOVE SYSID TO KPL FIELD BUFFER

CONVERT IT TO HEX IN R2

SYSID IN HEX TO R13 FOR SGC0M
GET SYMX AGAIN

IS IT OUTPUT?
NO
IS THERE A CONTEXT BLOCK
NO
CONVERT TO WA

DRES SYSID MATCH
NO
PASS COM-BUF TO RBBAT

```

CONTROL SECTION SUMMARY: 01 0060C PT 0 02 00032 PT 0 03 00032 PT 0

ABCERR/00000000
 ANSPR0C/00000001
 AVR/01 00333
 AVRS/01 0032C
 BAUNIT1/01 00007
 BLKSZ/00000003
 CHK:LBL/01 00361
 CHKID/01 00280
 CHK0/01 002FC
 CKF5/01 003F0
 CKSERIAL/01 00298
 CKZER03/01 00452
 DCYX/01 002C0
 DEVICED0WN/01 003AE
 DTVALCK/01 0020A
 D4/0000000F
 F/00000001
 GDTKIVAL/01 001EE
 GDTKIV4/01 00209
 GJ0BFC/00000013
 GJ0BUSY/01 000F9
 GKIFLD3/01 0005D
 IDLE/00000001
 ISPS3/01 002B8
 KBUF/00000003
 KC1/000000C1
 KEYERR1/01 00068
 KFFFF/0000FFFF
 KIAB0RT/01 00077
 KIDATE/01 001D9
 KIERR0R1/01 0007C
 KIFD0WN/01 0010A
 KIGBUP/01 00121
 KIGJ0B2/01 000D2
 KIGJ0B6/01 000FC
 KIHEAD/01 0016A

AMNTSCR/01 00259
 ANSREEL#/01 0025C
 AVRBZERR/01 00390
 AVR1/01 0033D
 BAUNIT2/01 00008
 BLP/01 00006
 CHKBLP/01 0027A
 CHKID1/01 0028A
 CHK1/01 0030A
 CKF6/01 003F2
 CKZER0/01 0042C
 C0NTUGSRCH/01 000AD
 DCV20/01 0012C
 DISCBPR0C/00000000
 D1/0000000C
 EAPR0G/01 003A8
 FKIC/01 004DF
 GDTKIV1/01 001FD
 GETAVR/01 0023B
 GJ0BFULL/01 00105
 GJ0BWAKE/01 00100
 GKIFLD4/01 0005F
 ISPS/01 002C1
 ISPS5/01 002AE
 KCCP/00000001
 KDIAG/01 00145
 KEYINA/01 0002D
 KFLAGS/00000002
 KIANSM/01 00212
 KIDELT/01 000B8
 KIER12/01 00027
 KIFLUSH/01 005EA
 KIGD0WN/01 00117
 KIGJ0B3/01 000DD
 KIGJ0B7/01 000F7
 KIHI/01 00170

ANSASN/0000000A
 ANSV0L/00000003
 AVRI0ERR/01 00385
 BAC0NCAT/00000038
 BITS/00000000
 CCERR/01 003AA
 CHKGACN/01 000B0
 CHKSR/01 00244
 CKFREE/01 003E9
 CKF7/01 003F4
 CKZER01/01 00421
 D/00000002
 DCV30/01 00134
 DLTPSD/01 000BC
 D2/0000000D
 ENTINT/01 00073
 FMT/00000005
 GDTKIV2/01 00203
 GETAVR1/01 0023D
 GJ0BXTX/02 0000F
 GJ0BWC/00000013
 GKIFLD5/01 00060
 ISPS0/01 002CD
 KA/0000000A
 KC0MMA/TEXT
 KDIAG1/01 00148
 KEYIN0/01 0000A
 KFO/000000F0
 KIANS0/01 00214
 KIDL/01 00018
 KIER13/01 00089
 KIF1/01 005F3
 KIGJ0B/01 000BE
 KIGJ0B4/01 000E2
 KIGUP/01 00123
 KIHI2/01 00176

ANSFNMAX/00000011
 ASCV0L1/01 003B4
 AVRLBERR/01 0038A
 BAKPLB/00000014
 BLKCNT/00000011
 CHK/01 002F7
 CHKGNAME/01 000AB
 CHKSR1/01 00249
 CKF10/01 00408
 CKF8/01 003FB
 CKZER02/01 0042A
 DCBPR0C/00000000
 DEFAULTGACN/01 000A9
 D0SRCH/01 00373
 D3/0000000E
 ERSEND/01 00501
 FSN/00000010
 GDTKIV3/01 00208
 GETFLG1/01 00381
 GJ0BUC/00000018
 GKIFLD1/01 00036
 GNAME/01 00098
 ISPS2/01 002B1
 KBLANK/TEXT
 KCRET/00000015
 KE0B/00000026
 KEYIN20/01 00027
 KF9/000000F9
 KIANS5/01 00210
 KIERR0R/01 0007A
 KIER15/01 0008F
 KIGB/01 00127
 KIGJ0B1/01 000C1
 KIGJ0B5/01 000EA
 KIG1/01 00143
 KIM0UNT/01 00216

17:42 SEP 08, 175
 KIMBUNTZ/01 0021C
 KIPL/01 00010
 KIRCN2/01 00420
 KIREQBLK/01 00418
 KIREQNDD/01 003DA
 KIREQT2/01 00411
 KIRQUE1/01 003F7
 KISTSY/01 004E7
 KISTV1/01 00164
 KMAXKIFL/0000000C
 KN10/FFFFFFFF0
 K8BF/01 0006E
 KRBC8M/01 005C5
 KRBDISC/01 00575
 KRBDX/01 00579
 KRBMV/01 00525
 KRBMV4/01 0053A
 KRBSPN/01 00560
 KRBS1/01 00591
 KSCPU/01 00194
 KXCPU2/01 001B1
 K2/00000002
 L8CK/01 002DA
 MAXMINVAL/01 001E6
 MATSCR/01 00263
 MSMDAT/01 001D7
 M7/00000007 S
 NKIDL/00000007
 NETANS/00000001
 NETV8L1/01 00359
 NXXICHR2/01 00048
 NXXICHR4/01 0003D
 PEASTAPE1/01 00396
 RDILBL/01 00369
 REQ*RS/01 003CC
 REST/01 00268
 R0/00000000

KIMVHDR/01 0016E
 KIRAD1ST/01 00465
 KIREQ/01 003B9
 KIREQDCB/01 00412
 KIREQND6/01 003E1
 KIREQ111/01 0040A
 KISCRTH/01 00218
 KISTSY0/01 004EB
 KISTV2/01 00166
 KMCSEND/01 0017C
 KN18/FFFFFFFFE8
 K8BN/01 00070
 KRBDCK/01 0054C
 KRBDNCK/01 00559
 KRBL8G/01 005AD
 KRBMV0/01 00526
 KRBS/01 00586
 KRBSPN1/01 00566
 KRBSN/01 00551
 KSCPU1/01 00199
 KXCPU3/01 001B3
 K5/00000005
 LRCSZ/00000012
 MAXM8NVAL/01 001E8
 M8NPR8C/00000000
 M16/00000010 S
 M8/00000008 S
 N8BRANCH/01 00009
 N8TBLP/01 0024F
 N8UNTSW/01 00234
 NXXICHR3/01 0004A
 NXXICHR5/01 0003F
 PREM8UNT/01 0028F
 READTAPE/01 00397
 REQTY/01 003CF
 REST10/01 00268
 R1/00000001

KINGHDR/01 00179
 KIRCN/01 0043F
 KIREQBF/01 00419
 KIREQDD/01 0040B
 KIREQSY/01 0041D
 KIREQ8/01 0041C
 KISEND/01 00151
 KISTSY1/01 004EE
 KIS1/01 0015C
 KMCSEND1/01 00184
 KN6/FFFFFFFFFA
 K8UTSTOP/01 005DB
 KRBDCT/01 00544
 KRBD81/01 0057C
 KRBL8N/01 00587
 KRBMV1/01 0052D
 KRBS2/01 00520
 KRBSPN2/01 00562
 KRBX/01 00567
 KSCPU2/01 001A0
 K0/00000000
 K8/00000008
 MAXDAYVAL/01 001EA
 MAXYRVAL/01 001EC
 MPBITS/00000001
 M2/00000002 S
 N8CPU/00000001 S
 N8CC/01 0034E
 N8TEXPR/00000002
 N8STARTB/00000001 S
 NXXICHR31/01 0004C
 8CPCK/01 004E0
 PUBLK/01 0029E
 REAVR/01 00344
 REQTY1/01 003D1
 REST20/01 00272
 R10/0000000A

KIBUTPUT/01 005C7
 KIRCN1/01 00449
 KIREQBK/01 00418
 KIREQFIL/01 00436
 KIREQT1/01 0040E
 KIRQUE/01 003E5
 KISTART/01 000B5
 KISTSY2/01 004FB
 KITIME/01 001C1
 KMCSEND2/01 00189
 KN8/FFFFFFFFF8
 KRBC8ST/01 00512
 KRBDCT1/01 0054E
 KRBD82/01 00583
 KRBLVN/01 0058D
 KRBMV2/01 00539
 KRBS8N/01 00518
 KRBSWIT/01 00597
 KRBX1/01 0056F
 KXCPU/01 001AA
 K1/00000001
 L8C/01 0001A
 MAXHRVAL/01 001E4
 MCFC/01 003B3
 MSGT/01 00380
 M24/00000018 S
 NKEYINS/00000031
 N8IDPUB/01 002D3
 N8TUNIQUE/01 00330
 N8T8PB/00000002 S
 NXXICHR32/01 0004E
 PEASTAPE/01 00395
 RBC8DE/00000001
 REEL#/01 00265
 REQTY2/01 003D7
 REST30/01 00274
 R11/0000000B

R12/0000000C
 R2/00000002
 R6/00000006
 SEP10/01 0029F
 SKEYIN2/01 00497
 SKF0/01 004CC
 SKFSET/01 004A1
 SKIN2/01 0047B
 SR1/00000008
 START*KEYIN/01 0001A
 STOPPED/00000000
 TXTG0/01 0000F
 U/00000004
 V/00000003
 VPXPSDT/00000001
 XFF/00000008 S
 X7FF/0000000B S
 YC1FF/01 00001
 Y08/0000001C S
 Y8/00000020 S
 1A2/01 00458

R13/0000000D
 R3/00000003
 R7/00000007
 SEP20/01 002A5
 SKFCK/01 00499
 SKFRM/01 004B7
 SKF1/01 004CF
 SKIN3/01 00483
 SR2/00000009

 SXP/FUNC
 TXTSTOP/01 0000E
 UFLAGS/00000000
 VERB/0000001C S
 X/00000032
 XFF0A00/01 003B7
 X80/00000008 S
 YC5FF/01 00003
 Y1/0000001D S
 ZAP10/01 0010E
 Z74IC0DE/00000001

R14/0000000E
 R4/00000004
 R8/00000008
 SETNEW/01 0031E
 SKFF/01 004C9
 SKFRM1/01 004BA
 SKIN/01 0046B
 SNFN/00000000
 SR3/0000000A
 STARTBIT/00000001
 S69PR0C/00000001
 TYPERR/01 00276
 USER/00000002
 VERSION/0000002B
 XCF/01 00004
 XF7/01 00005
 X88/01 003B8
 Y01/00000019 S
 Y2/0000001E S
 ZAP20/01 00116
 ILBL/01 003B6

R15/0000000F
 R5/00000005
 R9/00000009
 SKEYIN/01 00489
 SKFJ/01 004BD
 SKFRM2/01 004D4
 SKIN1/01 0048B
 SRCHAVR/01 002EA
 SR4/0000000B
 STOPBIT/00000002
 TPIGE0N/01 00168
 T1/01 001CB
 UTSPR0C/00000001
 V0L1/01 003B5
 XF/00000004 S
 X30/01 00002
 Y/00000000
 Y04/0000001B S
 Y4/0000001F S
 1A1/01 0045F

* EXTERNAL DEFINITIONS

GKIFLD/01 00050
 KFL/00000004
 KSGCQ/01 004DC

KEYERR/01 00066
 KIJMPTBL/03 00000
 NXKICHR/01 00039

KEYINR/01 0006D
 KITBL/02 00000
 TXM00SE/01 0000C

KEYN/01 00000
 KPLB/00000005

* PRIMARY REFERENCES

ACNCFU ANSFLGS
 AVRID AVRNB0
 BGRCFU BLANK
 CVSYSID DATE
 DCT4 DEC0NV
 E:ERR ERRLOG
 H0WAL0 J:BASE
 KFRMGFC KIDEL
 MASKS MAXG
 NEWG NSCPU
 RAD1ST RATIDCT4

ANSVRT AVRIBL
 AVRIBLNE BT3IT00
 C0CPU DCT16
 DCT1 DEVCK
 DID FCMC
 GETUSER# J:CCBUF
 JIJIT KIDIS
 KIPRI MBS0P#
 MING 0CQUEUE
 0HINM RBB:ID

ASPIN AVRIBLNE
 AVRIBLNE C0CPU
 C0CPU DCT1
 DCT1 DID
 DID GETUSER#
 GETUSER# JIJIT
 JIJIT KIPRI
 KIPRI MING
 MING 0HINM
 0HINM RBLIMS

AVRDCT AVRIBLSIZ
 AVRIBLSIZ CIMS
 CIMS DCT16
 DCT16 DOUBLEZER0
 DOUBLEZER0 GMB
 GMB KEYINBUF
 KEYINBUF K0ST0P
 K0ST0P MXSTRM
 MXSTRM PLBIMIN
 PLBIMIN RMB

AVRFLGS BATAPE
 BATAPE CFUSIZE
 CFUSIZE DCT24
 DCT24 E:ABRT
 E:ABRT G00DNGT
 G00DNGT KFLUSH
 KFLUSH LPART
 LPART NB3IT00
 NB3IT00 PLHISID
 PLHISID RSERIAL

AVRFNMT BCSTGFC
 BCSTGFC CTRIG
 CTRIG DCT3
 DCT3 E:CBK
 E:CBK HEXCK
 HEXCK KFRMCG
 KFRMCG LSERIAL
 LSERIAL NDD
 NDD QUEUE
 QUEUE SIBUAS

H01 17:42 SEP 08, 175

SICUN	SIGJOBACN
SBIRTY	SCNTXT
SHIRNM	SHIRBCU
SNULL	SOLICIT
SYMTABCK	SYMX
TIGJOBSTRT	TIRUE
TYPMNSZ	UBIUS
X1000FFFF	YFFFF
1MIN	IBIG

SIGJOBTRL
SCSVDMI
SHIRBT
SSTAT
SYSACCT
TB:FLGS
UH:FLG2
Y000A
IB560

SIGUAI5
SGCQ
SIXPACK
STB:TYP
SYSTRT
TB:FLGS1
UX:JIT
Y06
IB9

SIMBSF
SGCQ2
SMUIS
SVIRSIZ
T:BTSCHE
TIME
WAKEUP
Y07

SIBUAI5
SHIRBCU
SNDDX
SWITGFC
T:DELUS
TSERIAL
XFC
Y18

163

SBIGJBBU
SHIRGCU
SNDGFC
SYMCBM
T:GJBBR
TSTACK
X0
Y3

* SECONDARY REFERENCES

ACTBIT	ALBIT
COCSENDX	COCTERM
LIPBIT	LNOL
RASIDBL	RBIFLAG

CBC
CP05
MODE2
RBDIWSN

CBCDSABL
DCBIT
GADBIT
RBXBIT

COCENABL
ECHOCR2
OCPI0
SIMPKYN

COCMESS
KC0MGFC
OCPTYP
SB:INIT

COC0TV
LBIUN
OFFBIT
SB:STATE

- * NO UNDEFINED SYMBOLS
- * ERROR SEVERITY LEVEL: 0
- * NO ERROR LINES