

17:42 SEP 08, 175 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	2260.67/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
ANSPR0C	1801/LB	1806/STB	2260.6/STR				
	45=SET						
ANSVRT	91.3/REF	1516/MTW	1552/MTW	1584.14/MTW			
ANSREEL#	1549/BCS	1554-EQU					
ANSVOL	1546/CI						
ASCVOL1	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				
BT31T00						
	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=EQU	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=EQU					
	91.36/REF	2191/BAL	2347/BAL	2640/BAL	2834/BAL	2844.36/BAL	

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

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					
HOWALB	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	758/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=EGU			
KIGDOWN				
230.96/KITV	867=EGU			
KIGJOB				
230.89/KITV	742=EGU			
KIGJOB1				
756=BCS				
KIGJOB2				
774=CI	801/B			
KIGJOB3				
782/BE	785=EGU	800/BE		
KIGJOB4				
772/BE	793=EGU			
KIGJOB5				
769/BE	802=EGU			
KIGJOB6				
789/B	805=STCF			
KIGJOB7				
809/BCS	812/BCS	816=BAL		
KIGUP				
230.97/KITV	907=EGU			
KIG1				
948.1/BEZ	951.1=STW			
KIHEAD				
230.90/KITV	927.63=EGU			
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=EGU			
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	
KIREGND		
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
	2260.47/STW	2260.52/STM				2260.43/STW
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					
KMCSEND	230.92/KITV	1119=EQU					
KMCSEND1	1135=EQU	1140/B					
KMCSEND2	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					
2639=	EQU	2769/	BAL		
KRBDCT					
2549/	BAL	2630=	EQU	2679/	BAL
KRBDCT1					
2642=	CLM			2693/	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		
KRBMVO					
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=EQU	2793/B				
KRBSEND						
230.125/KITV	2529=EQU					
KRBSPN						
2646/BAL	2664=EQU	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=EQU					
KRBS1						
2720/BE	2729=EQU					
KRBWSN						
2637/BNE	2645=EQU					
KRBX						
230.127/KITV	2674=EQU					
KRBX1						
387/BNEZ	2678/BE	2683=EQU				
KSCPU						
230.106/KITV	1154=EQU					
KSCPU1						
1171=LW	1208/BAL					
KSCPU2						
1170/LI	1177.1=EQU					
KSGCQ						
87/DEF	2441=EQU	2527/B	2761/LI	2844/B	2844.61/B	
KXCPU						
230.114/KITV	1191=EQU					
KXCPU2						
884/BAL	1211.1=LW					
KXCPU3						
1211.3-DISABLE	1218.1/BDR					
KO						
197=EQU	322/LI					
K1						
198=EQU	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
MODE2	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						

RBBID	91.156/REF	2550/MTB	2650/MTB				
RBCODE	78=SET	91.145/D0	230.119/D0	885/D0	2349/D0	2499/D0	2507/D0
	2595.2/D0						
RBDIWS <sup>N</sup>	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			
REQ*RS	2086/BE	2090=LB					
REQTY	2073/BE	2082/BE	2095=LI				
REQTY1	2097=C I	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					
SIMPKN	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=EGU			
SKEYIN2	2360=EGU	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=EGU	2425/BAL				
SKFF	2400/B	2414=EGU					
SKFJ	2402=BAL						
SKFB	2401/B	2418=EGU					

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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\*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).

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

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.

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

DELETE HANDLED BY DELPRI  
PRIO HANDLED BY DELPRI

HO1 17:42 SEP 08, '75

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00000001  
00000001  
01 00000 6800001A

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*P*
*P*
*P*
*P*
***** REFERENCE: CP-V OPERATIONS REFERENCE MANUAL *****
*
ANSPROC SET 1
MPBITS SET 1
SYSTEM UTS
B START$KEYIN
  
```

FORM HANDLED BY DELPRI  
DISPLAY HANDLED BY DISPLAY



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.

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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GKIFLD  
KEYERR  
KEYINR  
KFL  
KPLB  
KSGCQ  
NXKICHR  
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 SGCQ  
SUBR TO OBTAIN NEXT CHAR IN KEYINBU  
TEXTC 'MOOSE'

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 ASPIN  
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 AVRFLGS  
 AVRFNMT  
 AVRID  
 AVRNBU  
 AVRTBL  
 AVRTBLSIZ  
 AVRTBLNE  
 BATAPE  
 BGRCFU  
 BLANK  
 BT31TBO  
 C:MSM  
 CFUSIZE  
 CBC  
 CBCDSABL  
 COCENABL  
 COCMESS  
 COCOTV  
 COCSENDX  
 COCTERM  
 CP0S  
 CTRIG  
 CVSYSID  
 DATE  
 DCTSIZ  
 DCT1  
 DCT16  
 DCT3  
 DCT4  
 DECONV  
 DEVCK

TO DERIVE PACK STATUS (REQUEST)  
 FOR 'ANSMI/'ANSI' KEYINS  
 FOR 'ANSMI/'ANSI' KEYINS  
 RESOURCE ALLOCATION FOR PUBLIC MOUN  
 DCT INDEX FOR AVR PROCESS  
 SET CODE CONVERSION IN AVR  
 FOR 'ANSMI/'ANSI' KEYINS  
 USER ID FOR MOUNT PROCESS  
 DEVICE USAGE FOR MOUNT PROCESS  
 DATA FOR MOUNT PROCESS  
 DATA FOR MOUNT PROCESS  
 DATA FOR MOUNT PROCESS  
 TO CONVERT DCTX TO AVR INDEX  
 TO DERIVE PACK STATUS (REQUEST)  
 ZAPPER FOR KIPL BUFFER  
 BIT MASKS  
 INITIALIZED BY 'TIME' KEYIN  
 TO DERIVE PACK STATUS (REQUEST)  
 TO DETERMINE IF T/S SYSTEM  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO PASS 'SEND' MESSAGE TO USER  
 TO RETRY A KEYIN  
 TO CONVERT EBCDIC SYSID TO HEX  
 INITIALIZED BY 'DATE' KEYIN  
 TO SCAN DCT TABLES  
 DATA FOR DISMOUNT MESSAGE  
 TO DERIVE/VALIDATE 'YYNDD' ADDRESSE  
 TO CHECK FOR PARTITIONED RB DEVICE  
 FOR VARIOUS DEVICE-TYPE CHECKS  
 TO CONVERT EBCDIC # TO BINARY  
 TO CONVERT DEV ADR TO DCTX

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REF FICBK  
REF FIERR  
SREF FCHOCR2  
REF ERRLOG  
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 BCPIB

INITIALIZED BY 'DIAG' KEYIN  
USED AS ZAPPER  
EVENT REPORTED VIA 'IXI' 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 BCP SUPPORT IS INCL

74*	SREF	OCRTYP	DCT4 VALIDATION FOR OCP DEVICES
75*	REF	OCQUEUE	KEYIN,6 INTERFACE TO THE OC
76*	REF	OHINM	TO DECODE 'SYI' FORM OF SYMB KEYIN
77*	REF	PLBIMIN	MOUNT 'PUBLIC' EXCLUSIVE CHECK
78*	REF	PLH;SID	TO VALIDATE A BATCH SYSID
79*	REF	QUEUE	USED TO RESPOND TO 'REQUEST' KEYIN
80*	REF	RADIST	INITIALIZED BY 'PREFER' KEYIN
81*	SREF	RAS;DOL	MASK FOR RAS DCTX
82*	REF	RAT;DCT4	RESOURCE ALLOCATION FOR PUBLIC MOUN
83*	REF	RMB	TO RELEASE MISC BUFFERS
84*	REF	RSERIAL	MOUNT RESOURCE/EXCLUSIVE CHECK
85*	REF	SIBUAIS	INITIALIZED BY 'ONBI'/'ZAP' KEYINS
86*	REF	SICUN	FIND PHYSICAL JI
87*	REF	SIGJOBACN	TO FIND GHOST IN TABLES (E/X/INT)
88*	REF	S;GJOBTL	TO FIND GHOST IN TABLES (E/X/INT)
89*	REF	SIGUAIS	TO CALCULATE MAX POSSIBLE USERS
90*	REF	SIMBSF	TO G00SE RBBAT
91*	SREF	SIMPKN	MP RE-ENTRANCY COUNTER
92*	REF	SIOUAIS	TO CALCULATE MAX POSSIBLE USERS
93*	REF	SBIGJOBUN	TO FIND GHOST IN TABLES (E/X/INT)
94*	SREF	SB;INIT	CPU START/STOP FLAGS
95*	REF	SBIRTY	TO DERIVE DEVICE TYPE FOR 'REQUEST'
96*	SREF	SB;STATE	SLAVE CPU STATE
97*	REF	SCNTXT	TO VALIDATE 'FLUSH' KEYIN
98*	REF	SCSVGDI	TO VALIDATE 'FLUSH' KEYIN
99*	REF	SGCQ	USED TO PASS GFC'S TO RBBAT
100*	REF	SH;RBCU	MOUNT 'PUBLIC' SPINDLE ALLOCATION
101*	REF	SH;RGCU	MOUNT 'PUBLIC' SPINDLE ALLOCATION
102*	REF	SHIRNM	TO PASS RESOURCE TO GHOST VIA 'GJOB
103*	REF	SH;R0CU	MOUNT 'PUBLIC' SPINDLE ALLOCATION
104*	REF	SHIRTBT	MOUNT 'PUBLIC' SPINDLE ALLOCATION
105*	REF	SIXPACK	TO PACK A 6-CHARACTER SERIAL #
106*	REF	SMUIS	TO CALCULATE MAX POSSIBLE USERS
107*	REF	SNDDX	USED BY SYMBIONT KEYINS
108*	REF	SNUL	TO SKIP INACTIVE USERS DURING 'ZAP'
109*	REF	SO LICIT	TO DETERMINE PREMOUNT STATUS
110*	REF	SSTAT	INITIALIZED BY 'BOFF' KEYIN

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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 UBUS  
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 TB  
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  
KEYIN'S 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 'REQUEST  
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 'RBDISC'/ 'RBSWITCH'  
STATUS BIT FOR 'RBSWITCH' KEYIN

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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 SNOGFC  
REF SWITGFC  
FIN

39  
GHOST FUNCTION CODE 1 'RBBST' KEYI  
BIT FOR 'RBSWITCH' KEYIN  
'DOWN' BIT ; RB DEVICE VALIDATION  
GHOST FUNCTION CODE 1 '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 1 'RBSEND' KEYI  
GHOST FUNCTION CODE 1 'RBSWITCH'



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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	KCOMMA	EQU	' , '
214	00000026	KEBB	EQU	X'26'

LINE	ADDR	HEX	DISP	OP	INSTR	COMMENT
215					PAGE	
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	AVRFNMT,R3
225	01 00008	730A0000	X	BAUNIT2	MTB,0	AVRFNMT,R5
1*	01 00009	68000000	X	N0BRANCH	B	SYSTRT
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	TXTG8	TEXT	'G8'

REFLEXIVE BRANCH FOR STORING

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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 | \* |  
\*,\*  
-----  
\*\*\*\*\*

\* K IPL = KEYIN PARAMETER LIST

\*  
K IPL      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      '!'  
DATA,1      '!'  
DATA,1      '!'  
NKIDL      EQU      BA(\$)=BA(KIDL)      NO. OF KEYIN DELIMITERS

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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  
KMAXIFL EQU 12  
BAKPLB EQU 4\*KPLB  
BBUND 4

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

```

47*
48*          01 0001A          LOC          PAGE
49*                                     EQU          *
50*                                     DEF          KITBL          CSECT BIAS FOR POSSIBLE PATCHING
51*          02 00000          DEF          KIJMPTBL          CSECT BIAS FOR POSSIBLE PATCHING
52*          03 00000          KITBL          CSECT          0
53*          KIJMPTBL          CSECT          0
54*          *
55*          *
56*          00000000          X          SET          0
57*          00000000          KITV          CNAME
58*                                     PROC
59*          Y          SET          NUM(AF)<2IS;NUMC(AF(1))>
60*          ERROR,1,Y          'ILLEGAL/MISSING ARGUMENT FIELD'
61*          GO TO,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*          *          NAME**RECEIVER
72*          *-----*
73*          *
74*          02 00000          40404040 A          KITV          I          I,KEYERR
75*          03 00000          68000066 01          KITV          IABOR,I,KIABORT          ABORT
76*          02 00001          C1C2D6D9 A          KITV          IANSMI,KIANSM          ANSMOUNT
77*          03 00001          68000077 01          KITV          IANSSI,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

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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!DEL T	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!SEND	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!FORMCG	FORM
	03	0000E	68000000 X			
89*	02	0000F	C7D1D6C2 A	GJ0BTXT KITV	!GJOB!,K!GJOB	GJOB
	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!INT	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

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	03	00017	68000123	01			
98*	02	00018	D6D5C240	A	KITV	'0NB I,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 I,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 I,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 I,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 I,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 I,KIFDOWN	ZAP
	03	00029	6800010A	01			

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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

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NKEYINS

DB	RB CODE	
KITV	'RBDI',KRBCST	RABDCST
KITV	'RBCO',KRBCOM	RACOM
KITV	'RBDI',KRBDISC	RADISC
KITV	'RBLD',KRBLDG	RALDG
KITV	'RBS ',KRBS	RBS
KITV	'RSEI',KRSEND	RASEND
KITV	'RBSW',KRBSWIT	RBSWITCH
KITV	'RBX ',KRBX	RBX
FIN		
EQU	X=1	
USECT	L0C	



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01 0001A

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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.
*****

```

168*				*			
169*	01	0001A	22700000	A	LI,7	0	IF AVR, DO IT AND RESET FLAG
170*	01	0001B	46700000	X	XW,7	AVRDCT	
171*	01	0001C	69300333		BNEZ	AVR	
172*	01	0001D	22100015	A	LI,1	KCRET	
173*	01	0001E	71100000	X	CB,1	KEYINBUF	
174*	01	0001F	6830006D		BE	KEYINR	
175*	01	00020	2210000F	A	BUMP	15,R1	
	01	00021	13100000	X			
176*	01	00022	32700000	X	LW,R7	TSTACK	
177*	01	00023	207FFFF9	A	AI,R7	=7	
178*	01	00024	02200050	A	LCI	5	MOVE PARAMETER
179*	01	00025	2A000010		LM,R0	KIPL	LIST TO TSTACK
180*	01	00026	2B0E0000	A	STM,R0	0,R7	
181*	01	00027	22100000	A	LI,R1	0	
182*	01	00028	351E0001	A	STW,R1	KCCP,R7	SET CUR CHAR POSITION = 0
183*	01	00029	6AB00050		BAL,SR4	GKIFLD	GET 1ST FIELD OF KEYIN
184*	01	0002A	69800066		BCS,8	KEYERR	CHECK IF A LEGAL FIELD
185*				*			
186*	01	0002B	321E0005	A	LW,R1	KPLB,R7	(R1) = 1ST 4 CHAR OF FIELD
187*	01	0002C	22300031	A	LI,R3	NKEYINS	(R3) = NO. OF KEYINS
188*	01	0002D	31160000	02	CW,R1	KITBL,R3	
189*	01	0002E	68360000	03	BE	KIJMPTBL,R3	GO TO APPROPRIATE ROUTINE
190*	01	0002F	6430002D		BDR,R3	KEYINA	
191*	01	00030	322E0005	A	LW,R2	KPLB,R7	
192*	01	00031	323E0006	A	LW,R3	KPLB+1,R7	
193*	01	00032	72100001	A	LB,R1	R1	CHECK IF SYMBIANT KEYIN
194*	01	00033	211000E2	A	CI,R1	'S'	
195*	01	00034	6830046B		BE	SKIN	
196*	01	00035	68000066		B	KEYERR	

KEYIN20

KEYINA

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  
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 257  
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 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\*  
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 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

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263	01	0003A	21300048	A
264	01	0003B	6910003F	
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	EDU	\$
	LB,R3	*R7
	LW,R4	0,R7
NXKICHR3	EDU	\$
	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  
305  
306  
307  
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310  
311  
312  
313  
314  
1\*  
2\*  
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4\*  
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24\*  
25\*

01 00050

```

PAGE
GKIFLD 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: NXXICHR
*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* NXXICHR.
*****

```

```

315
316 01 00050 09800000 N
317 01 00051 32200000 X
318 01 00052 352E0005 A
319 01 00053 352E0006 A
320 01 00054 352E0007 A
321
322 01 00055 22100000 A
323 01 00056 351E0002 A
324 01 00057 2200000D A
325 01 00058 22200014 A
326 01 00059 6AB00039
327 01 0005A 6980005D
328 01 0005B 64000036
329 01 0005C 6800005F
330
331 01 0005D
332 01 0005D 21200014 A
333 01 0005E 69300060
334 01 0005F
335 01 0005F 49000020 N
336 01 00060
337 01 00060 202FFFEC A
338 01 00061 352E0004 A
339 01 00062 351E0002 A
340 01 00063 08800000 N
341 01 00064 70200000 A
342 01 00065 F800000B A
    
```

```

*
PUSH SR4
LW,R2 BLANK
STW,R2 KPLB,R7
STW,R2 KPLB+1,R7
STW,R2 KPLB+2,R7
*
LI,R1 KO
STW,R1 KFLAGS,R7
LI,R0 KMAXKIFL+1
LI,R2 BAKPLB
BAL,SR4 NXKICHR
BCS,8 GKIFLD3
BDR,R0 GKIFLD1
B GKIFLD4
*
GKIFLD3 EQU $
CI,R2 BAKPLB
BNE GKIFLD5
GKIFLD4 EQU $
BR,R0 Y8
GKIFLD5 EQU $
AI,R2 =BAKPLB
STW,R2 KFL,R7
STW,R1 KFLAGS,R7
PULL SR4
LC R0
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\*

```

PAGE
KEYERR 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
*****
*0* MESSAGE: EH
*0*
    
```

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12\*  
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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 S  
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*
PURPOSE: TO PROCESS THE '0006E' KEYIN.
*F*
DESCRIPTION: INCREMENTS SSTAT.
*****
*
MTB,1 SSTAT
B KEYINR
*
*
*
K0BN EQU $
*****
*F* NAME: K0BN
*F*
PURPOSE: TO PROCESS THE '00070' KEYIN.
*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 KIERROR1

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

\*  
 \*  
 \*  
 KIABORT EQU \$  
 \*\*\*\*\*  
 \*F\* NAME: KIABORT  
 \*F\*  
 \*F\* PURPOSE: TO PROCESS THE 'ABORT' 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 ABORT EVENT  
 STW,6 JICCBUF  
 B KIERROR1

623  
 624  
 625  
 626 01 0007A  
 627  
 628

\*  
 \*  
 \*  
 KIERROR EQU \$  
 \*\*\*\*\*  
 \*F\* NAME: KIERROR

629  
630  
631  
632  
633  
634  
1\*  
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26\*  
27\*  
28\*  
29\*  
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 | | INAME,ACCOUNT |
*D*                    | IX      | | **      **
*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

```

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43\*  
44\*  
45\*  
46\*

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

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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	PLH:SID,7						
		BE	KIER15						
KIER13		BDR,7	KIER12						
*									
		LI,7	MAXG		CHECK FOR GHOST JOB				
		CR,2	SB:JOBUN,7						

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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  
KIER15  
GNAME  
DEFAULTGACN  
CHKGNAME

BE  
BDR,7  
B  
EQU  
CI,2  
BL  
LW,9  
LW,6  
BAL,7  
B  
LW,6  
BAL,11  
B  
EQU  
LW,12  
LW,13  
SLD,12  
LW,2  
CI,2  
BG  
STB,2  
LD,14  
BAL,11  
LW,2  
BEZ  
CI,2  
BG  
CI,8  
BNE  
LW,14  
LW,15  
EQU  
LI,2  
DISABLE  
EQU  
CD,12  
BE

KIER15  
\$=2  
KEYERR  
\$  
MING  
KEYERR  
6  
2  
GETUSER#  
KEYERR  
9  
TIRUE  
KEYINR  
\$  
KPLB,7  
KPLB+1,7  
\$8  
KFL,7  
7  
KEYERR  
12  
SYSACCT  
GKIFLD  
KFL,7  
DEFAULTGACN  
\$  
KEYERR  
KEYERR  
KPLB,7  
KPLB+1,7  
\$  
MAXG  
\$  
SIGJBTBL,2  
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  
SIGJBTBL SIZE  
MATCH CHECK ACCOUNT

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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		

C0NTUGSRCH	EQU
	BDR,2
	ENABLE
	B
CHKGACN	EQU
	CD,14
	BNE
	LB,2
	ENABLE
	B

*
CHKGNAME
KEYERR
*
SIGJOBACN,2
C0NTUGSRCH
SBIGJOBUN,2
KIER15

NO MATCH; CONTINUE

NO SUCH GHOST

WRONG ACCOUNT; CONTINUE SEARCH  
ID

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705  
706 01 000B5

PAGE  
KISTART EQU \$

707  
708  
709  
710  
711  
712  
713

\*\*\*\*\*  
\*F\* NAME: KISTART  
\*F\*  
\*F\* PURPOSE: TO PROCESS THE 'START' AND 'S' KEYINS.  
\*F\*  
\*F\* DESCRIPTION: CALLS T;BTSCHED TO GOOSE RBBAT.  
\*\*\*\*\*  
\*

714  
715 01 000B5 22000000 A  
716 01 000B6 6AB00000 X  
717 01 000B7 6800006D

LI,RO 0  
BAL,11 T;BTSCHED  
B KEYINR EXIT

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

01 000B8  
01 000B9  
01 000BA  
01 000BB  
01 000BC  
128000BC  
9580004E A  
22100001 A  
8E82004E A  
0040006E N  
10000000

PAGE EQU \$  
KIDELT  
\*\*\*\*\*  
\*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\*\*\*  
\*  
\*  
\*  
B8UND 8  
IPSD (IA,KEYINR+1),(WK,1),MAP,MASTER DELTA WILL DECREMEN  
INSTRUCTION ADR



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719  
742 01 000BE

743  
744  
745  
746  
747  
748  
749  
750  
751  
1\*  
2\*  
3\*  
4\*  
5\*  
6\*  
7\*  
8\*  
9\*  
10\*  
11\*  
12\*  
13\*  
14\*  
15\*  
16\*  
17\*  
18\*  
19\*  
20\*  
21\*  
22\*  
23\*  
752  
753  
754

01 000BE 331E0000 A  
01 000BF F3F00007 A

PAGE EQU \$ THIS CODE PROCESSES THE 'TASK'

KIGJOB \*\*\*\*\*

\*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.

\*\*\*\*\*

\*D\* NAME: KIGJOB

\*D\* CALL: KEYIN FORMAT: GJOB NAME|ACCOUNT|RESOURCE|NAME|  
 \*D\* | | | | |  
 \*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.

\*\*\*\*\*

\* REMOVE '!' AS DELIMITER

MTW,1 0,R7  
MTB,-1 \*R7

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755 01 000C0 6AB00050  
 756 01 000C1 69800066  
 757  
 758 01 000C2 32AE0004 A  
 759 01 000C3 21A00007 A  
 760 01 000C4 69200066  
 761  
 762 01 000C5 320E0005 A  
 763 01 000C6 321E0006 A  
 764 01 000C7 1100000A  
 765 01 000C8 68300066  
 766 01 000C9 25000178 A  
 767 01 000CA 75A00000 A  
 768 01 000CB 21800015 A  
 769 01 000CC 683000EA  
 770 01 000CD 02200020 A  
 01 000CE 08000000 N  
 771 01 000CF 2180004B A  
 772 01 000D0 683000E2  
 773 01 000D1 12C00000 X  
 774 01 000D2 2180006B A  
 775 01 000D3 69300066  
 776 01 000D4 6AB00050  
 777 01 000D5 69800066  
 778 01 000D6 32AE0005 A  
 779 01 000D7 25A00470 A  
 1\* 01 000D8 22200000 N  
 781 01 000D9 51A40000 X  
 782 01 000DA 683000DD  
 783 01 000DB 642000D9  
 784 01 000DC 68000066  
 785 01 000DD 02200020 A  
 786 01 000DE 0A000000 N  
 787 01 000DF 6AA00000 X  
 788 01 000E0 68F0006D  
 789 01 000E1 680000EC

KIGJOB1 BAL,11 GKIFLD  
 BCS,8 KEYERR  
 \* LW,10 KFL,7  
 CI,10 7  
 BG KEYERR  
 \* LW,0 KPLB,7  
 LW,1 KPLB+1,7  
 CD,0 KEYIND  
 BE KEYERR  
 SLD,RO \*8  
 STB,R10 RO  
 CI,R8 X151  
 BE KIGJOB5  
 PUSH 2,RO  
 CI,R8 1,1  
 BE KIGJOB4  
 LD,R12 DOUBLEZERO  
 KIGJOB2 CI,R8 1,1  
 BNE KEYERR  
 BAL,R11 GKIFLD  
 BCS,8 KEYERR  
 LW,R10 KPLB,R7  
 SAS,R10 \*16  
 LI,R2 SVIRSIZ  
 CH,R10 SHIRNM,R2  
 BE KIGJOB3  
 BDR,R2 \*2  
 B KEYERR  
 KIGJOB3 EQU \$  
 PULL 2,RO  
 BAL,R10 T1GJOB8  
 BCR,15 KEYINR  
 B KIGJOB6

GET TASK NAME  
 ERROR RETURN TO USER  
 #  
 NAME:7  
 GET TASK NAME FROM BUFFER  
 DONT START OURSELF  
 POSITION FOR BYTE  
 COUNT INSERTION  
 FIELD TERMINATE ON NEW LINE  
 YES - GO START !SYS GJOB  
 SAVE THE GJOB NAME  
 IS THE DELIM A DOT  
 YEP  
 ZAP ACN FIELD  
 WANTS TO PASS A RESOURCE NAME  
 CANT FIGURE OUT WHAT TO DO HERE..  
 GET RESOURCCE FIELD  
 ERROR  
 GET RESOURCE NAME  
 POSITION FOR SEARCH  
 FIND NAME IN TABLES  
 INVALID INPUT  
 RESTORE GJOB TEXTIC NAME FROM STACK  
 AND START THE GHOST UP  
 NORMAL RETURN

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 TIBV
          CI,R8      X'15'      FIELD TERMINATE ON NEWLINE
          BE         KIGJOB3     YES = GO START THE GHOST
          B          KIGJOB2     NO = GO EXAMINE FOR RESBUCE NAME

KIGJOB5  EQU          $
          BAL,R10    TIGJOBSTRY  START ,SYS GHOST JOB
          BCR,15     KEYINR
          STCF       R10        SAVE CONDITION CODES FROM TIBV
          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
          BAL,R11    BCQUEUE     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'

```

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	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

TEXT (TASK TABLES FULL)

830 00000013

GJ9BFC EQU

BA(8)-BA(GJ9BFULL)=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\* SIBUAS AND SIBUAS 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 GDDNGT \*\*\*SAVE SYMB FILES  
LI,5 SMUIS  
LI,6 E,ABRT ARBRT 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 ARBRT 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\*

```

*F*      PURPOSE: TO PROCESS THE ,OFF, KEYIN.
*F*
*F*      DESCRIPTION: ZEROS 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: T:RUE
*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 T:RUE (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.
*****

```

```

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

```

```

*
LI,0      0
STW,0     S:BUAIS
STW,0     S:BUAIS
LI,1      NSCPU
BEZ      *+3

```

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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 RBC8DE  
LI,3 0FFBIT  
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  
 908

\*  
 \*  
 \* 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: " " (X = DECIMAL VALUE)  
 \*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:  SIBUAI5 = X   (IF ONB)
*D*      SIBUAI5 = X   (IF ON)
*D*
*D*      REGISTERS:  ALL ARE VULNERABLE
*D*
*D*      INTERFACE:  GKIFLD
*D*
*D*      ENVIRONMENT: MASTER/MAPPED
*D*
*D*      DESCRIPTION: VERIFIES THAT COC IS PRESENT (ION: ONLY) AND
*D*                    THEN SETS SIBUAI5 (IF !ONB!) OR SIBUAI5 (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	35100000	X		STW,1	JICCBUF	
922	01	00127			KIGB	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	DCV20	LR,3	1,5	
931	01	0012D	203FFF10	A		AI,3	=X'FO'	
932	01	0012E	68100132			BGEZ	3+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		DCV30	BIR,5	DCV20	
939					*			
940	01	00135	22200000	X		LW,2	SIBUAI5	TOT BAT AND ON LINE USERS

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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	21100000	N
3*	01	00140	69200066	
950	01	00141	35100000	X
951	01	00142	68000144	
1*	01	00143	35100000	X
955	01	00144	68000060	

KIG1

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	S;BUAIS
B	KEYINR

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

```

PAGE
RES 0
*****
*K* NAME: KDIAG
*K*
*K* PURPOSE: TO PROCESS THE 'DIAG' KEYIN
*K*
*K* DESCRIPTION: STORES THE USER # ASSOCIATED WITH THE SPECIFIED
*K* 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 GET ID
BAL,11 GKIFLD
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, NB 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\*  
16\*  
17\*  
18\*  
19\*  
20\*  
21\*  
22\*  
23\*  
24\*  
25\*  
26\*  
27\*  
28\*  
29\*  
30\*

01 00151 22100000 N  
01 00152 68300066

```

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

```

17142 SEP 08, '75

31\* 01 00153 2180006B A  
 32\* 01 00154 69300066  
 33\* 01 00155 6AB00050  
 34\* 01 00156 69800066  
 35\* 01 00157 321E0005 A  
 36\* 01 00158 22200000 A  
 37\* 01 00159 31100607  
 38\* 01 0015A 6930015C  
 39\* 01 0015B 22200001 A  
 40\*  
 41\* 01 0015C 21800015 A  
 42\* 01 0015D 68340164  
 43\* 01 0015E 09200000 N  
 44\* 01 0015F 12000168  
 45\* 01 00160 6AA00000 X  
 46\* 01 00161 69F00068  
 47\*  
 48\* 01 00162 08200000 N  
 49\* 01 00163 68040166  
 50\*  
 51\*  
 52\*  
 53\* 01 00164  
 54\* 01 00164 6800006D  
 55\* 01 00165 68000179  
 56\*  
 57\* 01 00166  
 58\* 01 00166 6800006D  
 59\* 01 00167 6800016E  
 60\*  
 61\* 01 00168 06D7C9C7 A  
 01 00169 25D6D540 A

KIS1

KISTV1

KISTV2

TPIGEON

CI,R8 CI,I  
 BNE KEYERR  
 BAL,R11 GKIFLD  
 BCS,8 KEYERR  
 LW,R1 KPLB,R7  
 LI,R2 0  
 CW,R1 =C'ALL'  
 BNE KIS1  
 LI,R2 1  
 J  
 CI,R8 X'15'  
 BE KISTV1,R2  
 PUSH R2  
 LD,R0 TPIGEON  
 BAL,R10 TIGJOBSTRY  
 BCS,15 KEYERR1  
 \*  
 PULL R2  
 B KISTV2,R2  
 \*  
 \*  
 \*  
 EQU \$  
 B KEYINR  
 B KINQHDR  
 \*  
 EQU \$  
 B KEYINR  
 B KIMVHDR  
 BRUND 8  
 TEXTC 'PIGEON'

CHECK SYNTAX  
 ERROR  
 GET ID/'ALL'

INITIALIZE FLAG! ASSUME ID  
 WAS 'ALL' SPECIFIED  
 NO  
 YES...RE-INITIALIZE FLAG

IS DELIMITER A 'CR'  
 YES...TAKE APPROPRIATE ACTION  
 NO...SAVE ID/'ALL' FLAG  
 TEXTC: PIGEON  
 START UP PIGEON  
 LATER! IF PIGEON WAS ALREADY ACTIV  
 OR WE WERE UNABLE TO START IT UP,  
 GET ID/'ALL' FLAG  
 CONTINUE

IF ID...MERELY EXIT  
 IF 'ALL'...ZAP COCMFSS

IF ID...EXIT  
 IF 'ALL'...MOVE MESSAGE TO COCMFSS

62\*  
63\* 01 0016A

```

PAGE
KIHEAD EQU $
*****
*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 CBC ROUTINES I
*F* THE TOP OF PAGE HEADING.
*****

```

```

72*
73* *D* NAME: KIHEAD
74* *D*
75* *D* CALL: KEYIN FORMAT: HEADING (MESSAGE)
76* *D*
77* *D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
78* *D* CBC, KEYINBUF
79* *D*
80* *D* OUTPUT: COCMES
81* *D*
82* *D* REGISTERS: ALL ARE VULNERABLE
83* *D*
84* *D* ENVIRONMENT: MASTER/MAPPED
85* *D*
86* *D* DESCRIPTION: IF NO MESSAGE WAS PROVIDED, BYTE 0 OF COCMES
87* *D* IS SET TO 0; OTHERWISE, UP TO 55 CHARACTERS OF THE
88* *D* MESSAGE ARE MOVED FROM KEYINBUF TO COCMES WITH BYTE
89* *D* 0 OF COCMES SET AS THE BYTE COUNT.
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

```

```

KIIMVHDR
LI,R1 CBC IS THIS A T/S SYSTEM
BEZ KEYERR NO
CI,R8 X'15' IS DELIMITER A (CRI)
BE KINOHDR YES,..ZAP COCMES
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

KI11	J		
	LB,R0	KEYINBUF,R1	GET CHARACTER FROM MESSAGE
	CI,R0	X'15'	IS IT 'CR'
	BE	KI12	YES...QUIT
	STB,R0	COCMESS+(56/4),R2	PUT IT AWAY IN COCMESS
	AI,R1	1	INCREMENT KEYINBUF INDEX
	BIR,R2	KI11	GO GET NEXT CHARACTER
KI12	J		
	AI,R2	55	CALCULATE ACTUAL MESSAGE SIZE
	STB,R2	COCMESS	INITIALIZE BYTE CNT
	B	KEYINR	EXIT
	*		
	*		
	*		
KIN0HDR	J		DELETE CURRENT MESSAGE
	LI,R0	0	
	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 XEROX-
          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 01 00184
1136 01 00184 72080000 X

```

```

BIF,S7S9 KEYERR
LI,12 XIFFI DCT MASK
AND,12 RASIDBL DCTX
OR,12 =X'1FF0A001' FC,PR1,NRT
LI,13 BA(KEYINBUF) BUF
AW,13 KCCP,R7 CURRENT POSITION
LW,R4 KCCP,R7 CURRENT POSITION
KMCSND1 EQU $
LB,R0 KEYINBUF,R4

```

H01 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	

	CI,R0	X'15'
	BE	KMCSEND2
	AI,R4	1
	B	KMCSEND1
KMCSEND2	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
	NBP	
	B	KEYINR

CR

MSG SIZE

SIZE

NO END ACTION

1153  
1154 01 00194

```

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.
*****

```

1154  
1\*  
2\*  
3\*  
4\*  
5\*  
6\*  
7\*  
8\*  
9\*  
10\*  
11\*  
12\*  
13\*  
14\*  
15\*  
16\*  
17\*  
18\*  
19\*

```

*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, TIGJOBSTRT
*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 TIGJOBSTRT TO INITIATE
*D* THE MOOSE GHOST JOB.
*****

```

1165  
1166 01 00194 22B00000 N  
1167 01 00195 68300066  
1168 01 00196 6AB00050  
1169 01 00197 69800066  
1170 01 00198 22B001A0

```

*
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

```

F01 17:42 SEP 08, 1975  
 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  
 1 01 001A0  
 1180 01 001A0 60000037 A  
 1181 01 001A1 72B60000 X  
 1182 01 001A2 48B00000 X  
 1183 01 001A3 20B00001 A  
 1184 01 001A4 75B60000 X  
 1185 01 001A5 60000027 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  
 EQU \*  
 KSCPU2 DISABLE  
 LB,11 SBIINIT,R3  
 AND,11 XFC  
 AI,R11 STARTBIT  
 STB,11 SBIINIT,R3  
 ENABLE  
 MTW,1 SIMPKYN  
 LD,0 TXM00SE  
 BAL,10 TIGJOBSTRT  
 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

```

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.
*****
*

```

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

```

LI,11 NSCPU IS THIS A SLAVE CPU SYSTEM
BEZ 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  
 TXMOOSE  
 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 *
*****
*F* NAME: KITIME
*F*
*F* PURPOSE: TO PROCESS THE 'TIME' AND 'T' KEYINS.
*F*
*F* DESCRIPTION: VALIDATES INPUT AND STORES 'HHMM' (IN EBCDIC)
*F* 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 (2.5S 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

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1263	01	001DD	6AB001EE	BAL,SR4	GDTKIVAL	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	GDTKIVAL	GET YEAR VALUE
1269	01	001E2	35200001 N	STW,R2	DATE+1	STORE YEAR
1270	01	001E3	6800006D	B	KEYINR	EXIT
1271				BBUND	8	
1272	01	001E4	0000F0F0 A	MAXHRVAL DATA	'001,123'	HOURS
	01	001E5	0000F2F3 A			
1273	01	001E6	0000F0F0 A	MAXMINVAL DATA	'001,159'	MINUTES
	01	001E7	0000F5F9 A			
1274	01	001E8	0000F0F1 A	MAXM0NVAL DATA	'011,112'	MONTHS
	01	001E9	0000F1F2 A			
1275	01	001EA	0000F0F1 A	MAXDAYVAL DATA	'011,131'	DAYS
	01	001EB	0000F3F1 A			
1276	01	001EC	0000F0F0 A	MAXYRVAL DATA	'001,199'	YEARS
	01	001ED	0000F9F9 A			

1277  
1288 01 001FE

1289  
1290  
1291  
1292  
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1295  
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1297

1\*  
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```

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
GDTKIV1 EQU *
LW,R2 KPLB,R7
SLS,R2 =16 RIGHT JUSTIFY
CLM,R2 *0 LEGAL VALUE
B0L KEYERR
PULL SR4
B *SR4 NORMAL EXIT *****

*
GDTKIV2 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

*
GDTKIV3 EQU *
PULL R0
GDTKIV4 EQU *
B KEYERR
    
```

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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\*  
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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  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  
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1399  
1400  
1401  
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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.
*****
*
* LW,SR2 Y2 ANS SCRATCH FLAG
* B KIMOUNTZ
*
*
* 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.
```

01 00210 3290001E N  
01 00211 6800021C

01 00212

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      KIMBUNTZ
*
*
*          KIANSE  EQU      $          ANS  OVER FLAG
*****
*F*      NAME:      KIANSE
*F*
*F*      PURPOSE:  TO PROCESS THE ,OVER, AND ,READ, KEYINS.
*F*
*F*      DESCRIPTION: SETS R9 = Y4 AND CALLS KIMBUNTZ.
*****
*
*          LW,SR2  Y4
*          B      KIMBUNTZ
*
*
*          KIMBUNT EQU      $
*****
*F*      NAME:      KIMBUNT
*F*
*F*      PURPOSE:  TO PROCESS THE ,MBUNT, KEYIN.
*F*
*F*      DESCRIPTION: SETS R9 = 0 AND CALLS KIMBUNTZ.
*****
*
*          LI,SR2  0          NOT SCRATCH
*          B      KIMBUNTZ
*
*
*          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  
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```

*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('TCH ')      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, MOUNT & 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*                      MOUNT NDD(,NDD)(,BLP)(,SERIAL#,PUBLIC),
*D*                      LOCK
*D*                      SCRATCH NDD(,NDD)(,BLP),SERIAL#
*D*                      ANSMOUNT NDD(,NDD)(,BLP)
    
```

13\* \*D\*  
 14\* \*D\*  
 15\* \*D\*  
 16\* \*D\*  
 17\* \*D\*  
 18\* \*D\*  
 19\* \*D\*  
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 21\* \*D\*  
 22\* \*D\*  
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 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, HOWAL0, 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

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51\*  
52\*  
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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
LI,6	0
LW,10	*8
CI,5	AVRTBLSIZ
BL	*+4
LW,10	*
LC	SR2
BCS,15	KEYERR
CI,SR1	'0'
BNE	NOUNTSW
CW,SR2	Y4
BE	KEYERR
MTB,0	SOLICIT,R5
BEZ	KEYERR
PUSH	R5
BAL,D4	NDD
PULL	R3
LD,D1	AVRTBL,R5
LD,D3	AVRTBL,R3
LH,R6	AVRID,R3
AI,3	BATAPE
STB,R3	R5
LW,D4	D2
B	GETAVR1
NOUNTSW	EGU
	*

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  
OVER, OR 'READ' KEYIN OR AN ERROR IS RETURNED.

CHECK NDD =OK DCTX IN R2
ID
SET TAPE/PACK FLAG
IS IT RIGHT
YES
NO, SET POSITIVE
NOTHING BUT MOUNT FOR PACKS
UNIT SWITCH
NO
MUST NOT BE OVER KEYIN
MUST BE SOLICITED
SAVE AVRX
GET 2ND UNIT
R3=1ST DCTX
NEW VALUES, IF NOT MODIFIED
MAKE DCT INDEX
SET FLAG FOR SRCHAVR
GET FLAGS
REENTER LOGIC

\*\*\*\*\*  
\*D\* THE SECOND FUNCTION IS TO CHECK THE LEGALITY OF THE

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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		
1521	01	0023B	12CA0000	X
1522	01	0023C	12E0000C	A
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 TH<sup>99</sup>  
 \*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	AVRYBL,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	!		
	BAL,SR4	GKIFLD	
	BCS,8	KEYERR	
	BDR,10	MNTSCR	NO BLP FOR PACKS

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  
 NOTBLP EQU \*

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 4B000002  
 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\*\*\*4 SERIAL # ILLEGAL IF ANS VOL  
 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  
 BG KEYERR  
 ANSREEL# 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

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
REST20	CW, 1	3
	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' KEYIN!  
 \*\*\*\*\*  
 \*  
 \*  
 \*

H01

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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	ANSRPT
BQ	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  
 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\*  
 26\*  
 27\*  
 28\*  
 29\*  
 30\*  
 31\*  
 32\*  
 33\*  
 1587 01 00280 2180006B A  
 1588 01 00281 6930028F

CHKID	PAGE	RES
		*****
		THE LAST KEYIN FIELD IS CHECKED AND CVSYSID IS CALLED
		TO VALIDATE THE SPECIFIED USER ID OR THE APPROPRIATE
		ROUTINE IS CALLED TO PROCESS THE 'LOCK' OR 'PUBLIC'
		OPTIONS. THE 'PUBLIC' OPTION IS ILLEGAL UNDER THE
		FOLLOWING CONDITIONS:
		> THE SPECIFIED UNIT IS NOT A DISK PACK
		> THE UNIT IS IN EXCL USE
		> THE UNIT IS ALREADY MARKED 'PUBLIC'
		> THE SERIAL# IN THE AVRTBL DOESN'T MATCH THAT OF
		THE KEYIN AND THE DRIVE IS IN USE (AVRNOU=0)
		> ANOTHER DRIVE WITH THE SAME SERIAL# IS MOUNTED
		AND IS CURRENTLY IN USE
		TO MAKE THE DRIVE PUBLIC, A USER (BATCH OR ON-LINE) IS
		UNCHARGED FOR THE UNIT (VIA ASPIN AND HOWALO ROUTINES
		IF THE SPECIFIED DRIVE IS CURRENTLY IN USE)
		AND THE DRIVE IS CHARGED TO SHIRGCU. THE 'PUB' BIT I
		R15 IS SET, AVRNOU IS INCREMENTED AND CONTROL PASSES
		TO THE FINAL FUNCTION, THAT OF STORING AWAY THE AVRTB
		INFORMATION (SEE BELOW). THE 'LOCK' OPTION IS ILLEGA
		IF THE DRIVE IS CURRENTLY IN EXCLUSIVE USE OR THE
		SERIAL# IN THE EXISTING AVRTBL ENTRY DOES NOT MATCH
		THE KEYIN. IF THERE ARE NO USERS ASSOCIATED WITH THE
		PACK, KIREQND6 IS CALLED TO DISMOUNT THE DRIVE; OTHER
		WISE, AVRID IS SET TO =1 TO INDICATE 'LOCKED' TO PRE-
		VENT NEW USERS FROM ACCESSING THE DRIVE (EXCEPTION:
		AVRNOU = 1 IMPLIES THE 'GHOST USER' THAT WAS CHARGED
		FOR THE 'PRIV DRIVE MARKED PUBLIC' IN WHICH CASE THE
		AVRNOU IS SET TO ZERO, THE 'LOCKED' FLAG IN AVRID IS
		ZERGED AND THE RESOURCE IS RETURNED TO THE SYSTEM).
		*****
		*
		C1,SR1 1,1 BNE PREMOUNT NO ID,PUBLIC



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1589 01 00282 6AB00050  
1590 01 00283 69800066  
1591 01 00284 65A0028A  
1592 01 00285 320E0005 A  
1593 01 00286 3100060A  
1594 01 00287 6830029E  
1595 01 00288 3100060B  
1596 01 00289 683002DA  
1597 01 0028A  
1598 01 0028A 3260000F A  
1599 01 0028B 6AB00000 X  
1600 01 0028C 69800066  
1601  
1602  
1603 01 0028D 32F00006 A  
1604 01 0028E 32600002 A  
1\*  
2\*  
3\*  
1606 01 0028F  
1\*  
2\*  
3\*  
4\*  
5\*  
6\*  
7\*  
8\*  
1607 01 0028F 720A0000 X  
1608 01 00290 68300294  
1609 01 00291 3190001D N  
1610 01 00292 68200294  
1611 01 00293 32C0000E A  
1612 01 00294 31D00001  
1613 01 00295 69400066  
1614 01 00296 520A0000 X  
1615 01 00297 69300066

BAL,SR4 GKIFLD  
BCS,8 KEYERR  
BIR,10 CHKID1 NO PUBLIC, LOCK FOR TAPE  
LW,0 KPLB,R7  
CW,0 =IPUBLI  
BE PUBLK YES  
CW,0 =ILOCKI  
BE LOCK  
RES  
LW,6 D4  
BAL,11 CVSYSID ID TO HEX  
BCS,8 KEYERR  
ASSUME VALID ID  
LW,D4 6  
LW,6 R2 ID  
PREMBUNT RES 0 NOT PUBLIC  
\*\*\*\*\*  
\*D\* THE THIRD FUNCTION IS TO CHECK THE AVAILABILITY OF TH  
\*D\* SPECIFIED DRIVE, ON ANY MOUNT, A DRIVE IS CONSIDERED  
\*D\* AVAILABLE IF ALL OF THE AVRTBL FLAG BITS ARE RE=SET  
\*D\* (IGNORING AVR AND SCR/INIT) AND AVRNBU=0.  
\*\*\*\*\*  
LB,0 SOLICIT,5  
BEZ 8+4  
CW,SR2 Y1 IF ANS KEYIN, SET SN  
BLE 8+2  
LW,D1 D3  
CW,D2 YC1FF BUSY  
BANZ KEYERR  
LW,0 AVRNBU,5 IN USE  
BNEZ KEYERR

CHKID1

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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	D1
	BNE	*+3
	MTB,0	5
	BE	NOIDPUB
	AND,D4	X1000FFFF
	B	SRCHAVR

DIFFERENT, MUST SEARCH  
TEST UNIT SWITCH

REMOVE FLAG BITS EXCEPT SCRATCH  
PREMBUNT

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

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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	D3F20000	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	BATAPE,5
CW,D1	D3
BNE	KEYERR
PUSH	2,14
LI,14	0
BAL,11	ASPIN
BAL,11	HOWALB
PULL	2,14
MTH,0	AVRNOU,5
BEZ	*+2
MTH,-1	*0,1
MTH,1	SHIRGCU,1
BR,D4	Y8
MTH,1	AVRNOU,5
CI,4	AVRTBLBIZ
BGE	CHK1
B	SETNEW

FOR LW,2 5 .. AI,2 BATAPE

RESET  
 0=BIT,4=SPINX  
 LOADS 0 WITH WHO,CLEARSPIN

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

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1676					PAGE	
1677	01	002D3	526A0000 X	NOIDPUB	LH,6	AVRID,5
1679	01	002D4	3190001E N		CW,SR2	Y2
1680	01	002D5	6810031E		BGE	SETNEW
1681	01	002D6	21CFFFFF A		CI,D1	*1
1682	01	002D7	68300066		BE	KEYERR
1683	01	002D8	68400066		BAZ	KEYERR
1684	01	002D9	6800031E		B	SETNEW

ANS KEYIN  
YES, STORE IN TABLE  
SCRATCH  
YES  
NOTHING  
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 442002C0
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, ZEROES 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 22CFFFFFFF 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

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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 CHK0  
 AI,4 1  
 BDR,D2 CHK  
 B SETNEW  
 RES  
 BDR,10 \*+3  
 CB,2 DCT,4  
 BNE TYPERR  
 AI,4 \*BATAPE  
 LD,R2 AVRIBL,4  
 CW,3 YC1FF  
 BANZ \*+3  
 MTH,0 AVRNOU,4  
 BEZ CHK1  
 BDR,10 AVRS  
 AI,6 0  
 BEZ AVRS  
 AI,4 BATAPE  
 B CHK+2  
 RES  
 BAL,11 WAKEUP  
 LD,12 AVRIBL,4  
 INT,13 13 KILL PUB,SCR ETC. , PRESERVE HGP  
 LI,12 0  
 STD,D1 AVRIBL,4  
 STH,D1 AVRID,4  
 STB,D1 SOLICIT,4  
 BDR,10 SETNEW  
 STB,D1 ANSFLGS,4  
 LD,2 4  
 AD,2 2  
 AD,2 4  
 AD,2 2  
 AI,2 AVRFNMT+6  
 AI,3 AVRFNMT+6  
 LI,4 =6  
 LI,D1 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

KILL PUB,SCR ETC. , PRESERVE HGP

DONE IF PACK  
MOVE ANSN FOR TAPES

MULTIPLY BY 6  
POINT TO END OF ENTRY



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1791 01 0031B C6C80002 A  
 1792 01 0031C B5C80003 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 C9D8E4C5 A

SETNEW

XW,D1 \*2,4  
 STW,D1 \*3,4  
 BIR,4 \*3  
 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 MOST  
 SET ANS KEYIN FLAG IF PROPER  
 Y2 TO X8

AVRS

LI,1 NOTUNIQUE  
 ANLZ,7 DCTX  
 LI,11 KEYINR  
 B BCQUEUE

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  
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1856  
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1859  
1860  
1861  
1862  
1863  
1\*  
1865  
1866  
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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 VTOC
*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 REPEATE
** 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, WAKING 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 BRCHAVR ROUTINE IS USED TO
** LOCATE THE TAPE OR ANY DUPLICATES THEREOF AND PROCESS

```

THE TAPE IN A MANNER ANALOGOUS TO ANS, ABOVE.

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 82A00341  
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

\*\*\*  
\*\*\*\*\*  
\*  
LW,R5 R7  
AI,R5 #BATAPE AVR X  
BLZ AVR BZERR  
MTB,0 SOLICIT,R5 AVR SOLICITED  
BNEZ AVR1  
LD,D3 AVRTBL,R5  
CW,D4 YC1FF  
BANZ AVR BZERR BUSY=IGNORE  
LH,D4 AVRNOU,R5  
BNEZ AVR BZERR BUSY ALSO  
EQU \$  
LW,SR3 \$ SET PACK FLAG  
OR,R7 XFF0A00  
CI,R5 AVRTBLSIZ IF PACK, JUST READ VTBC  
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

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1916 01 00351 32C00000 X  
 1917 01 00352 31C00385  
 1918 01 00353 69300359  
 1919 01 00354 22100004 N  
 1920 01 00355 6A800000 X  
 1921 01 00356 32900000 X  
 1922 01 00357 32E00002 A  
 1923 01 00358 68000373  
 1924 01 00359 31C003B4  
 1925 01 0035A 69300361  
 1926 01 0035B 6A800381  
 1927 01 0035C 684003AA  
 1928 01 0035D 72EA0000 X  
 1929 01 0035E 20E00040 A  
 1930 01 0035F 75EA0000 X  
 1931 01 00360 68000344  
 1932 01 00361  
 1933 01 00361 32C00000 X  
 1934 01 00362 6A800395  
 1935 01 00363 32C00000 X  
 1936 01 00364 6A800395  
 1937 01 00365 32C0001B N  
 1938 01 00366 6A800395  
 1939 01 00367 32C0001B N  
 1940 01 00368 6A800395  
 1941 01 00368 6A800395  
 1942  
 1943  
 1944  
 1945  
 1946 01 00369 22C00000 A  
 1947 01 0036A 22E0000C A  
 1948 01 0036B 6A800397  
 1949 01 0036C 31000010 N  
 1950 01 0036D 6940038A  
 1951 01 0036E 32C00000 X  
 1952 01 0036F 31C00386

NOTVOL1

CHK;LBL

RD;LBL

LW,12 JIBASE  
 CW,12 VOL1  
 BNE NOTVOL1  
 LI,R1 BA(JIBASE)+4  
 BAL,SR4 SIXPACK  
 LW,SR2 Y3  
 LW,D3 R2  
 B D0SRCH  
 EQU \*  
 CW,12 ASCVOL1  
 BNE CHKILBL  
 BAL,SR4 GETFLG1  
 BAZ CCERR  
 LB,14 AVRFLGS,R5  
 AI,14 X'401  
 STB,R14 AVRFLGS,R5  
 B REAVR  
 RES 0  
 LW,R12 Y07  
 BAL,SR1 POSTAPE  
 LW,R12 Y06  
 BAL,SR1 POSTAPE  
 LW,R12 Y04  
 BAL,SR1 POSTAPE  
 LW,R12 Y04  
 BAL,SR1 POSTAPE  
 \*  
 \* TAPE IS NOW POSITIONED JUST BEFORE THE ILBL  
 \* IF IT IS A XEROX LABELED TAPE  
 \*  
 \*  
 \* RD;LBL  
 LI,12 0  
 LI,14 12  
 BAL,SR1 READTAPE  
 CW,R0 M16  
 BANZ AVRLBERR  
 LW,12 JIBASE  
 CW,12 ILBL

SENTINEL TYPE  
 ANS TAPE  
 NOT ANS

ANSMOUNT FLAG

NOT ANS-CHECK XEROX LABEL

ASCII TAPE ON NON-ASCII DRIVE

SET ASCII

POSITION THE TAPE FORWARD  
 OVER A TAPE MARK, THEN  
 BACKWARD OVER THE MARK, THEN  
 BACK OVER THE ASSUMED  
 IACN SENTINAL AND THE  
 ILBL SENTINAL.

BYTES IN ;LBL SENTINAL

LOST DATA  
 YEP, NOT ;LBL SENTINAL  
 OK, PICK UP WHAT WE READ  
 GOT WHAT WE WANTED

H01 17142 SEP 08, '75

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

D8SRCH

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 0CQUEUE  
 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  
 MBUN KEYIN  
 SAVE SN  
  
 MAKE MESSAGE  
  
 ANBSN 6 BYTES  
  
 RESTORE SN  
 NO ID  
 OLD AVRTBL  
 FLAGS  
 TRUNDLE INTO MBUNT 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  
1984  
  
1\*  
1985  
1986  
1987  
1\*  
1988  
1989  
  
1\*  
1990  
1991  
1992  
1\*  
1993  
1994

01 00385 6A10032D  
01 00386 0E40C1E5 A  
01 00387 D940C961 A  
01 00388 D640C5D9 A  
01 00389 D9D6D940 A  
  
01 0038A 6A10032D  
01 0038B 1040C1E5 A  
01 0038C D940D3C1 A  
01 0038D C2C5D340 A  
01 0038E C5D9D9D6 A  
01 0038F D9404040 A  
  
01 00390 6A10032D  
01 00391 0F40C1E5 A  
01 00392 D940C4D9 A  
01 00393 C9E5C540 A  
01 00394 C2E4E2E8 A

PAGE

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

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

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

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

\*\*\*\*\*  
\*B\* MESSAGE: YNDD AVR DRIVE BUSY  
\*B\* MEANING: DRIVE IS NOT TAPE OR PACK OR IS IN USE ALREADY.  
\*B\* 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+JIT+4  
 LI,13 BA(JIBASE) BUFFER ADDRESS  
 OR,R12 R7  
 LW,0 1  
 AI,0 2  
 BAL,SR4 NEWQ  
 B DEVICEDOWN  
 LW,RO JIBASE+4 GET END ACTION INFO  
 CW,RO 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 \*

\*\*\*\*\*  
\*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.  
\*\*\*\*\*

1\*  
2\*

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 \*

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

1\*  
2\*

2037  
2038

1\*

2039 01 003AE 6A10032D  
2040 01 003AF 0C40C4C5 A  
01 003B0 F5C9C3C5 A  
01 003B1 40C406E6 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 00FF0A00 A

\*  
MCFC GEN,8,24 FCMC,0  
ASCV0L1 DATA X'564F4C31' ASCII V0L1  
V0L1 TEXT 'V0L1'  
ILBL TEXT 'ILBL'  
XFF0A00 DATA X'FF0A00'

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2048 01 00388 00000088 A X88 DATA X'88'

2049  
2051 01 00389  
2052  
2053  
2054  
2055  
2056  
2057  
2058  
2059  
2060  
2061  
2062

```

PAGE
RES 0 REQUEST KEYIN
*****
KIREQ
NAME: KIREQ
*****
PURPOSE: TO PROCESS THE 'REQUEST RT' (RESOURCE-TYPE) FORM OF
THE 'REQUEST' KEYIN.
*****
DESCRIPTION: SCANS THE AVR TABLES FOR AN AVAILABLE RESOURCE
OF THE TYPE SPECIFIED; THE OPERATOR IS THEN NOTIFIED
OF ITS AVAILABILITY OR OF THE NEED TO DISMOUNT A
VOLUME.
*****
NAME: KIREQ
*****
ENTRY: KIREQND
*****
CALL: KEYIN FORMAT: REQUEST 'RESOURCE-TYPE'
INDD 1
*****
INPUT: R7 = ADR OF KEYIN PARAMETER LIST
SHIRNM, SBIRTY, TBIFLGS, DCT4
*****
INTERFACE: GKIFLD, CKFREE, QUEUE
*****
ENVIRONMENT: MASTER/MAPPED
*****
DESCRIPTION: GKIFLD IS CALLED TO OBTAIN THE RESOURCE-TYPE
OR DEVICE ADDRESS. IF A 2-CHARACTER OPTION IS
PRESENT, IT IS ASSUMED TO BE A RESOURCE-TYPE AND
SHIRNM IS SEARCHED FOR A MATCH, SBIRTY IS THEN
PICKED UP AND DCT4 IS SCANNED FOR A DEVICE-TYPE
MATCH. FOR EACH MATCH, CKFREE IS CALLED TO
DETERMINE IF THE DEVICE IS AVAILABLE. IF A DEVICE
ADDRESS WAS SPECIFIED, DEVCK IS CALLED TO OBTAIN THE
DCT INDEX OF THE DEVICE, TBIFLGS IS CHECKED TO INSURE

```

1\*  
2\*  
3\*  
4\*  
5\*  
6\*  
7\*  
8\*  
9\*  
10\*  
11\*  
12\*  
13\*  
14\*  
15\*  
16\*  
17\*  
18\*  
19\*  
20\*  
21\*  
22\*  
23\*  
24\*

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

2063			
2064	01	003B9	6AB00050
2065	01	003BA	69800066
2066	01	003BB	33EE0004 A
2067	01	003BC	693003DA
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	683003CF
2080	01	003C3	2240000B A
2081	01	003C4	21E0C4D7 A
2082	01	003C5	683003CF
2083	01	003C6	53F0000E A
1*	01	003C7	22200000 N
2085	01	003C8	51E40000 X
2086	01	003C9	683003CC
2087	01	003CA	642003C8
2088	01	003CB	68000066
2089			
2090	01	003CC	72440000 X
2091	01	003CD	70280000 X
2092	01	003CE	68800066
2093			
2094			
2095	01	003CF	22200000 N

\*D\* THAT THE DEVICE IS A TAPE OR PACK, AND CKFREE IS 123  
 \*D\* CALLED TO DETERMINE IF THE DEVICE IS AVAILABLE. WHEN  
 \*D\* THE SPECIFIED DEVICE OR A DEVICE OF THE SAME RESOURCE  
 \*D\* TYPE SPECIFIED IS FOUND TO BE AVAILABLE, AN  
 \*D\* APPROPRIATE MESSAGE IS SENT TO THE OPERATOR:  
 \*D\* NDD (IF THE DEVICE IS READY)  
 \*D\* NDD DISMOUNT SCRATCH REEL #  
 \*D\* NDD DISMOUNT AND SAVE REEL #  
 \*D\* OTHERWISE THE OPERATOR IS TOLD TO TRY LATER!  
 \*\*\*\*\*

*					
	BAL,SR4	GKIFLD			
	BCS,8	KEYERR			
	MTW,-2	KFL,R7			
	BNEZ	KIREGNDD	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	IDP,			
	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	SBIRTY,R2	GET DEVICE TYPE	
		LC	TBIFLGS,R4	FIND OUT WHAT KIND	
		BCR,8	KEYERR	NOT TAPE OR PACK =ERROR	
*			CHECK FOR FIRST AVAIL		
*			TYPE IN R4		
	REQTY	LI,R2	=AVRTRLNE		

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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  
 2180  
 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

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 TBIFLG6,R4 GET DEVICE TYPE  
 BCR,8 KEYERR NOT TAPE OR PACK  
 KIREQND6 LI,R1 3 LATER  
 AI,2 =BATAPE=AVRTBLNE  
 BAL,R5 CKFREE  
 B KEYERR,1 LATER  
 KIRQUE LW,D1 KIREQBK  
 STW,D1 KIREQBK=KIREQ111=20,R1  
 KIRQUE,1 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\*

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

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10\*  
11\*  
12\*  
13\*  
14\*  
15\*  
16\*  
17\*  
18\*  
19\*  
20\*  
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

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\*  
26\*  
27\*  
28\*  
29\*  
30\*  
31\*  
32\*  
33\*  
34\*  
35\*

01 003F9

```

PAGE
CKFREE EQU *
*****
*F* NAME: CKFREE
*F*
*F* PURPOSE: SUBROUTINE TO DETERMINE IF A SPECIFIED TAPE OR PACK
*F* IS FREE.
*F*
*F* DESCRIPTION: SEE 'DI' 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)
*D* 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
*D* USE. IF IN USE, RETURN IS MADE TO BAL+1; IF NOT IN
*D* USE, MISCELLANEOUS AVR TABLES ARE ZEROED (ANSFLGS,
*F* AVRFNMT); GMB IS CALLED TO OBTAIN A BUFFER, AN
*D* APPROPRIATE MESSAGE IS FORMATTED AND CKFREE EXITS TO
*F* KIRQUE (IN KIREQND) TO ISSUE THE MESSAGE.
*****
*
```

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

LI,D3 0  
LI,D4 0



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2208	01	003EB	6D000037	A		WD,0	X'1371	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,01	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'1271	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	C1E3C3C8	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	KIREQBK	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	C1,2	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	

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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	66E3FFFB	A	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	CKZERB3	PUSH	4,R1

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	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	BATAPF+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 IS IN USE

NOT PRIVATE

NO HIT

B CKZER02

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2269  
 2270 01 00465  
 2271  
 2272  
 2273  
 2274  
 2275  
 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

```

2286  
2287 01 0046B

2288  
2289  
2290  
2291  
2292  
2293  
2294  
2295  
2296  
  
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\*  
26\*

```

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

27\*  
28\*  
29\*  
30\*  
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 223E0004 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 0H1NM,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 0  
 AI,4 0  
 BEZ KEYERR  
 LD,2 DCT16,4  
 SLD,2 16  
 LI,8 1,1

SKIN2

SKIN3

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2328 01 00488 6800048B

B

SKIN1



2329  
 2330 01 00489  
 2331  
 2332  
 2333  
 2334  
 2335  
 2336  
 2337  
 2338  
 2339  
 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 \$  
 \*\*\*\*\*  
 \*F\* NAME: SKEYIN  
 \*F\*  
 \*F\* PURPOSE: TO PROCESS THE ISYNDDB,OPTION: FORM OF THE SYMBIONT  
 \*F\* KEYIN.  
 \*F\*  
 \*F\* DESCRIPTION: VERIFIES DEVICE ADDRESS (YNDDB) 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 \$  
 SLD,R2 8  
 BAL,SR4 DEVCK CHECK IF LEGAL DEVICE  
 BCS,8 KEYERR  
 DB RBCODE I  
 CLM,R2 RBLIMS NO RB DEVICES ON SYMBIONT KEYINS  
 BCR,9 KEYERR I  
 FIN I  
 PUSH R2  
 BAL,15 SKFCK  
 B SKFRM  
 LW,D1 SR1  
 PULL R2  
 BAL,SR4 SYMCOM  
 B KEYINR  
 SKEYIN2 EQU \$  
 PULL R2  
 B KEYERR  
 SKFCK EQU \$  
 BAL,11 NXXICHR  
 BCS,8 SKEYIN2

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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 201FFFFFF 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 22DFFFFFF A  
 2398 01 004B9 22EFFFFFF A  
 2399 01 004BA 680604BA  
 2400 01 004BB 680004C9  
 2401 01 004BC 680004CC  
 2402 01 004BD 6AB004E0

SKFSET

SKFRM

SKFRM<sub>1</sub>

SKFJ

LI,3 3  
 CB,8 FKIC,3  
 BE \*15  
 BDR,3 8-2  
 AI,15 1  
 B \*15  
 EQU \*  
 BAL,11 NXXICHR  
 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

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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 SKFF EQU \$  
 2415 01 004CA 6AF004A1 BAL,15 SKFSET  
 2416 01 004CB 32DE0005 A LW,13 KPLB,7  
 2417 01 004CB 680004CF B SKF1  
 2418 01 004CC SKFB EQU \$  
 2419 01 004CC 6AB004E0 BAL,11 BCPCK  
 2420 01 004CD 6AF004A1 BAL,15 SKFSET  
 2421 01 004CE 32EE0005 A LW,14 KPLB,7  
 2422 01 004CF SKF1 EQU \$  
 2423 01 004CF 2180006B A CI,8 1,1  
 2424 01 004D0 693004D4 BNE SKFRM2  
 2425 01 004D1 6AF00499 BAL,15 SKFCK  
 2426 01 004D2 680004BA B SKFRM1  
 2427 01 004D3 68000497 B SKEYIN2  
 2429 01 004D4 SKFRM2 EQU \$  
 2430 01 004D4 08200000 N PULL R2  
 2431 01 004D5 6AB00000 X BAL,11 SYMTARCK  
 2432 01 004D6 680004D8 B \$+2  
 2433 01 004D7 68000066 B KEYERR  
 2434 01 004D8 25C00008 A SLS,12 8  
 2435 01 004D9 20C00000 N AI,12 KFRMGFC  
 2437 01 004DA 25300010 A SLS,3 16  
 2438 01 004DB 49C00003 A BR,12 3  
 2439 \* B KSGCQ

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 004DC  
 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\*

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 5

2456 01 004DF 40C6D6D1 A  
 2457 01 004FO 004F0  
 2458 01 004E0 22100000 N  
 2459 01 004E1 68300497  
 2460 01 004E2 B2100000 X  
 2461 01 004E3 72120000 X  
 2462 01 004E4 21100000 N  
 2463 01 004E5 69300497  
 2464 01 004E6 F800000B A

FKIC TEXT 1 FBUI  
 BCPCK EQU \$  
 LI,R1 BCPI0  
 BEZ SKEYIN2  
 LW,R1 \*TSTACK  
 LB,R1 DCT4,R1  
 CI,R1 BCPTYP  
 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

```

PAGE
EQU      $
KISTSY
*****
*F*      NAME:      KISTSY
*F*
*F*      PURPOSE:  TO PROCESS THE 'SS' (START SYMBIANT) KEYIN.
*F*
*F*      DESCRIPTION: IF ONLY 1 LOCAL INPUT SYMBIANT EXISTS, AN
*F*                  'SYND, 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 'SYND, I' KEYIN IS SIMULATED FOR THAT
*D*                  SYMBIANT ('SYND, 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    SYM,X,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    DCT,16,R5    !
SLD,R2   16
LI,R1    'S'
    
```

H01 17142 SEP 08, '75

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

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

I  
I  
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 TOTOTAL 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 TIME 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 MP00L  
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<sup>C</sup>ST EQU \$  
 \*\*\*\*\*  
 \*F\* NAME: KRBB<sup>C</sup>ST  
 \*F\*  
 \*F\* PURPOSE: TO PROCESS THE !RBB<sup>C</sup>ST! 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<sup>C</sup>ST  
 BNE KRBMV  
 LI,14 0  
 B KSGCQ  
 \*\*\*\*\*  
 \*F\* NAME: KRBC<sup>OM</sup>  
 \*F\*  
 \*F\* PURPOSE: TO PROCESS THE !RBC<sup>OM</sup>! KEYIN  
 \*F\*  
 \*F\* DESCRIPTION: PASSES RBBAT A KCOMGFC GHOST FUNCTION CODE FOR  
 \*F\* PROCESSOR TO PROCESSOR COMMUNICATION.  
 \*\*\*\*\*  
 \*  
 LI,12 KCOMGFC  
 B KRBC<sup>OM</sup>  
 \*  
 KRBS<sup>END</sup> EQU \$ SEND A MESSAGE TO THE SPECIFIED RBT  
 \*\*\*\*\*



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 KRBMV0  
 FIN

DCTX IS OBTAINED BY KRBDCT. IF RBT  
 NOT LOGGED ON OR IF NO MESSAGE ERR0

FOR RBSND  
 FALL THRU TO KRBMV0

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
KRBMV0 EQU $
*****
*F* NAME: KRBMV0
*F*
*F* PURPOSE: SUBROUTINE TO MANIPULATE A KEYIN MESSAGE SUPPLIED VIA
*F* RBBBST/RBSEND/RBCOM/ERSEND KEYINS*
*F*
*F* DESCRIPTION: ACQUIRES AN MPOOL BUFFER AND MOVES THE CURRENT
*F* MESSAGE IN KEYINBUF INTO THE BUFFER.
*****
*D* NAME: KRBMV0
*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, KSGCQ
*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 KRBBST OR KRBSND, RETURN IS
*D* MADE IN SUCH A WAY AS TO CALL SGCQ; RELEASE THE BUFFE
*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 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

```

1*
2*
00000001
2630 01 00544 6AB00050
2631 01 00544 6AB00050
2632 01 00545 69800066
2633 01 00546 322E0005 A
2634 01 00547 323E0006 A
2635 01 00548 72E00002 A
2636 01 00549 21E00050 A
2637 01 0054A 69300551
2638 01 0054B 25200108 A
2639 01 0054C
2640 01 0054C 6AB00000 X
2641 01 0054D 69800066
2642 01 0054E 19200000 X
2643 01 0054F 69900066
2644 01 00550 F800000D A
2645 01 00551
2646 01 00551 6AB00560
2647 01 00552 68000066
2648 01 00553 11280000 X
2649 01 00554 69300566
2650 01 00555 73080000 X
2651 01 00556 68300566
2652 01 00557 32200004 A
2653 01 00558 F800000D A
2654
2655 01 00559
2656 01 00559 70280000 X
2657 01 0055A F920000D A
2658 01 0055B 70280000 X
2659 01 0055C F940000D A
2660 01 0055D 20D00001 A
2661 01 0055E 47080000 X
2662 01 0055F F800000D A
2663
2664 01 00560

```

```

PAGE
DB
RBCODE
KRBDC1 EQU *
BAL,11 GKIFLD
BCS,8 KEYERR
LW,2 KPLB,7
LW,3 KPLB+1,7
LB,14 2
CI,14 '8'
BNE KRBWSN
SLD,2 8
KRBDC1 EQU *
BAL,11 DEVCK
BCS,8 KEYERR
CLM,2 RBLIMS
BCS,9 KEYERR
B *R13
KRBWSN EQU *
BAL,11 KRBSPN
B KEYERR
CD,2 RBD:WSN,4
BNE KRBSPN1
MTB,0 RBB:ID,R4
BEZ KRBSPN1
LW,2 4
B *13
*
KRBDC1 EQU *
LC DCT3,4
BCS,2 *13
LC DCT24,4
BCS,4 *13
AI,13 1
STS,0 RBIFLAG,4
B *13
*
KRBSPN EQU *

```

```

GET DCTX FOR WSN OR &RBNDD.
I
IF NO '8' IS PRESENT SEARCH RBD:WSN
WSN. IF NOT FOUND ERROR. IF '8' I
GO TO DEVCK TO GET DCT. IF NOT REM
IF EVERYTHING A-OK EXIT WITH DCTX I

```

```

.....
CYCLE THROUGH ALL RB DCT INDEX(S)IC

```

H01 17:42 SEP 08, 1975

2665	01	00560	20B00001	A
2666	01	00561	2400001	N
2667	01	00562	2400000	X
2668	01	00563	F810000B	A
2669	01	00564	20BFFFFF	A
2670	01	00565	F800000B	A
2671	01	00566	64400562	

	AI,11	1
	LW,4	RBLIMS+1
KRBSPN2	CW,4	RBLIMS
	BGE	*11
	AI,11	*1
	B	*11
KRBSPN1	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 *
KRBX DISCONNECT ALL RBTS AND PREVENT NEW
*****
*F* NAME: KRBX
*F*
*F* PURPOSE: TO PROCESS THE 'RBX' KEYIN
*F*
*F* DESCRIPTION: DISCONNECTS AND DISALLOWS CONNECTION OF ONE OR
*F* ALL REMOTE PROCESSING TERMINALS.
*****
*D* NAME: KRBX
*D*
*D* ENTRY: KRBDISC, KRBS
*D*
*D* CALL: KEYIN FORMATS;  " " " "
  IRBX  |  |&RBNDI
  IRBDISCI  |WSN  |
  IRBS  |  "  "
  " " " "
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
  RBLIMS, RBD:WSN, RBBIID, RBIFLAG
*D*
*D* OUTPUT: RBIFLAG
*D*
*D* REGISTERS: ALL ARE VULNERABLE
*D*
*D* INTERFACE: GKIFLD, DEVCK
*D*
*D* ENVIRONMENT: MASTER/MAPPED
*D*
*D* DESCRIPTION: 3 HANDLERS AND A SET OF COMMON SUBROUTINES ALLOW
*D* THE OPERATOR TO CONNECT (RBS) OR DISCONNECT (RBX/
*D* RBDISC) REMOTE PROCESSING TERMINALS OR WORK STATIONS
*D* BY VALIDATING THE RBNDI/WSN INPUT PARAMETER AND
*D* SETTING APPROPRIATE BITS IN RBIFLAG FOR RBBAT.
*****
*
LI,3 OFFBIT

```

2675 01 00567 22300000 N



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+0ADBIT
B	KRBDX
EQU	*
LI,R5	RBXBIT+0ADBIT
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 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 KRBDCT  
 LW,4 2  
 LI,3 0  
 LI,5 RBXBIT  
 KRBDX 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 OR R3 SELECTIVELY INTO HIS  
 BRANCH TO BAL+1 IF NOT CONNECTED,B,  
 CONNECTED.

2717 01 00586

```

PAGE
EQU *
RESTART RBTS BY ALLOWING NEW CONNEC
*****
*F* NAME: KRBS
*F*
*F* PURPOSE: TO PROCESS THE IRBSI 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 00591 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

```

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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 2180006B 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

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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				

KRBC0M

LW,R13	ALBIT
AW,R13	DCBIT
LI,1	ACTBIT+LIPBIT
CW,1	RB:FLAG,2
BANZ	KEYERR
STD,4	RBD:WSN,2
STS,12	RB:FLAG,2
B	KEYINR
EDU	*
LI,12	KC0MGFC
B	KRBSC
FIN	

END SAM KEYS C00 UPDATES

2795  
2796  
2797  
2798  
2799  
2800  
2801  
2802  
2803  
2804  
2805  
  
1\*  
2\*  
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14\*  
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21\*  
22\*  
23\*  
24\*

2806 01 005r7  
2807 01 005C7 6AB00050

PAGE

```

*****
*F* NAME: KIOUTPUT
*F*
*F* PURPOSE: TO PROCESS THE !OUTPUT STOP,YYNDI 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!.
*****
*D* NAME: KIOUTPUT
*D*
*D* CALL: KEYIN FORMAT: OUTPUT !STOP,YYNDI
*D* !GO,IDI !
*D*
*D* INPUT: R7 = ADR OF KEYIN PARAMETER LIST
*D*
*D* OUTPUT: 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, YYNDI 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.
*****
*
KIOUTPUT EQU *
BAL,11 GKIFLD

```

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2808	01	005C8	49800066		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	483005DB		BE	KOUTSTOP	
2812	01	005CC	3120000F		CW,2	TXTGB	
2813	01	005CD	49300066		BNE	KEYERR	
2814	01	005CE	4AB00050		BAL,11	GKIFLD	GET SYSID
2815	01	005CF	49800066		BCS,8	KEYERR	NO GOOD
2816	01	005D0	4AB00000	X	BAL,11	CVSYSID	CONVERT TO HEX IN R2
2817	01	005D1	49800066		BCS,8	KEYERR	
2818	01	005D2	32600002	A	LW,6	2	USER ID TO R6
2819	01	005D3	4A700000	X	BAL,7	GETUSER#	RETURN USER NUMBER IN R5
2820	01	005D4	48000066		B	KEYERR	
2821	01	005D5	4D000037	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	4D000027	A	ENABLE		
2826	01	005DA	4800006D		B	KEYINR	
2827							
2828							
2829		01 005DB					
2830	01	005DB	4AB00050		KOUTSTOP EQU	\$	
2831	01	005DC	49800066		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	4AB00000	X	LW,3	KPLB+1,7	
2835	01	005E0	49800066		BAL,11	DEVCK	RETURN DCTX IN R2
2836	01	005E1	4AB00000	X	BCS,8	KEYERR	DEVICE NO GOOD
2837	01	005E2	480005E4		BAL,11	SYMTABCK	GET SYMTABX IN R3
2838	01	005E3	48000066		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	480004DC		LI,14	0	
					B	KSGCQ	GO SETUP RBBAT COMM. BUFFER



1\*  
 2\* 01 005FA  
 3\*  
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 13\*  
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 23\*  
 24\*  
 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 YNDD,SYSID  
 \*D\*  
 \*D\* INPUT: R7 = ADR OF KEYIN PARAMETER LIST  
 \*D\* DCT4, 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 'YNDD' 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 KSGCO.  
 \*\*\*\*\*  
 \*  
 BAL,R11 GKIFLD MOVE YNDD TO KPL FIELD BUFFER  
 BCS,8 KEYERR  
 LW,R2 KPLB,R7 MOVE YNDD TO REGISTERS  
 LW,R3 KPLB+1,R7  
 BAL,R11 DEVCK VALIDATE IT; RETURNS DCTX IN R2  
 BCS,8 KEYERR

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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	SYMΧ,R3
CI,R1	2
BAZ	KEYERR
LH,R1	SCNTXT,R3
BEZ	KEYERR
SLS,R1	1
LI,R3	MASKS+16
CS,R2	SCSV DGI,R1
BNE	KEYERR
B	KSGCQ
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

DOES 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  
DC7X/01 002C0  
DEVICEDOWN/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  
KIFDOWN/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  
CNTUGSRCH/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 00087  
KIFLUSH/01 005EA  
KIGDOWN/01 00117  
KIGJ0B3/01 000DD  
KIGJ0B7/01 000F7  
KIH1/01 00170

ANSASN/0000000A  
ANSV0L/00000003  
AVRIBERR/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  
GJ0BTXT/02 0000F  
GJ0BWC/00000013  
GKIFLD5/01 00060  
ISPS0/01 002CD  
KA/0000000A  
KCBMMA/TEXT  
KDIAG1/01 00148  
KEYING/01 0000A  
KFO/000000FO  
KIANS0/01 00214  
KIDL/01 00018  
KIER13/01 00089  
KIF1/01 005F3  
KIGJ0B/01 000BE  
KIGJ0B4/01 000E2  
KIGUP/01 00123  
KIH2/01 00176

ANSFNMAX/00000011  
ASCVAL1/01 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/0000001B  
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

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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/FFFFFFF0  
 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  
 REQ8RS/01 003C8  
 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/FFFFFFF8  
 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  
 MAXMBNVAL/01 001E8  
 MBNPR8C/00000000  
 M16/00000010 S  
 M8/00000008 S  
 N8BRANCH/01 00009  
 NETBLP/01 0024F  
 NETUNTSW/01 00234  
 NXXICHR3/01 0004A  
 NXXICHR5/01 0003F  
 PREM8UNT/01 0028F  
 REASTAPE/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/FFFFFFFA  
 K8UTST8P/01 005DB  
 KRBDCT/01 00544  
 KRBD81/01 0057C  
 KRBL8N/01 005B7  
 KRBMV1/01 00520  
 KRBS2/01 00520  
 KRBSPN2/01 00562  
 KR8X/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  
 NETEXPR/00000002  
 NSTARTB/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/FFFFFFF8  
 KRBB8CST/01 00512  
 KRBDCT1/01 0054E  
 KRBD82/01 00583  
 KRBLVN/01 0058D  
 KRBMV2/01 00539  
 KR8SEND/01 00518  
 KR8SWIT/01 00597  
 KR8X1/01 0056F  
 KXCPU/01 001AA  
 K1/00000001  
 L8C/01 0001A  
 MAXHRVAL/01 001E4  
 MCFC/01 003B3  
 MSGT/01 00380  
 M24/00000018 S  
 NKEYINS/000000031  
 N8IDPUB/01 002D3  
 NETUNIQUE/01 00330  
 NST8PB/00000002 S  
 NXXICHR32/01 0004E  
 PEASTAPE/01 00395  
 R8CBDE/00000001  
 REEL#/01 00265  
 REQTY2/01 003D7  
 REST30/01 00274  
 R11/00000008

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

\* EXTERNAL DEFINITIONS

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

\* 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

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

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

ANSVRT	AVRTBL
AVRTBL	BT31T00
BT31T00	DCT5IZ
DEVCK	FCMC
FCMC	J:CCBUF
J:CCBUF	KIDIS
KIDIS	MBS0P#
MBS0P#	@CQUEUE
@CQUEUE	RBB:ID

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

KEYINR/01 00060  
 KITBL/02 00000  
 TXM00SE/01 0000C

ASPIN	AVRDCY
AVRTBLNE	AVRTBLSIZ
C0CPU	CIMSM
DCT1	DCT16
DID	DOUBLEZERO
GETUSER#	GMB
J:JIT	KEYINBUF
KIPRI	K0STOP
MING	MXSTRM
0H:NM	PLBIMIN
RBL:MS	RMB

R15/0000000F  
 R5/00000005  
 R9/00000009  
 SKEYIN/01 00489  
 SKFJ/01 004BD  
 SKFRM2/01 004DA  
 SKIN1/01 0048B  
 SRCHAVR/01 002EA  
 SR4/0000000B  
 ST0PBIT/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

KEYN/01 00000  
 KPLB/00000005

AVRFLGS	AVRFNMT
BATAPE	BCSTGFC
CFUSIZE	CTRIG
DCT24	DCT3
E:ABRT	E:CBK
G00DNGT	HEXCK
KFLUSH	KFRMCG
LPART	L:SERIAL
NB31T00	NDD
PLH:SID	QUEUE
R:SERIAL	S:BUAIS

HO1 17:42 SEP 08, 1975

SICUN	SIGJOBACN
SIRTY	SCNTXT
SHIRNM	SHIRBCU
SNULL	SOLICIT
SYMTABCK	SYMX
T:GJOBSTRT	T:RUE
TYPMNSZ	UB:US
X1000FFFF	YFFFF
1MIN	:BIG

SIGJOBTRL
SCSVDGI
SHIRBT
SSTAT
SYSACCT
TB:FLGS
UH:FLG2
Y000A
:B560

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

SIMBSF
SGCQ2
SMU:5
SVIR5IZ
T:BTSCHE
TIME
WAKEUP
Y07

SIGUAI5
SHIRBCU
SNDX
SWITGFC
T:DELUS
TSERIAL
XFC
Y18

168

SB:GJBBU
SH:RGCU
SNDGFC
SYMCBM
T:GJBBR
TSTACK
X0
Y3

\* SECONDARY REFERENCES

ACTBIT	ALBIT
CBCSENDX	CBCTERM
LIPBIT	LNOL
RASIDOL	RBIFLAG

CBC
CP05
MODE2
RBD:WSN

CBCDSABL
DCBIT
QADBIT
RBXBIT

CBCENABL
ECHOCR2
OCPI0
SIMPKYN

CBCMESS
KC0MGFC
OCPTYP
SB:INIT

CBC0TV
LB:UN
OFFBIT
SB:STATE

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