1 2	;***COPYRIGHT 1969, DIGITAL EQUIPMENT CORP., MAYNARD, MASS.***	
3 4 5	THIS SUB-PROGRAM ASSEMBLED WITH SYSTEM PARAMETER FILE - S.MAC(V414)	
6		
7 8	THIS SUB-PROGRAM ASSEMBLED WITH CONFIGURATION DEPENDENT FEATURE SWITCHES V003)	- F†50SB
9	XLIST	
.0 .1 2	LIST TITLE COMCON - COMMAND DECODER AND SAVEGET ROUTINES - V433 SUBTTL /RCC Ø3 JUN 69	-
3	XP VCOMCN,433+	
5	ITHIS MACRO PUTS VERSION NO. IN STORAGE M.	AP AND GL
.6	ENTRY COMCON JALWAYS LOAD COMCON IF LIBRARY SEARCH	k.
7 000000	COMCON:	
.8 .9	CALLED FROM CLOCK ROUTINE WHEN 'COMONT' IS GREATER THAN Ø	
Ø	AS SET BY TTY SERVICE ROUTINE	
1	ALL AC'S HAVE BEEN SAVED BY CLOCK CHANNEL	
2	;THE COMMAND DECODER CALLS TTYCOM WHICH SCANS FOR TTY WHICH TYPED	
3	ITHE COMMAND AND THEN DISPATCHES(PUSHJ) TO APPROPRIATE	
-4 -5	COMMAND SETUP ROUTINE OF THE SAME NAME WITH AC'S SET AS:	
·5 ·6	ITEM = JOB NUMBER	
7	;TAC = BYTE POINTER TO COMMAND STRING(SPACE OR CR AFTER COMMAND NAME) ;DAT = BYTE POINTER TO LAST OUTPUT CHARACTER	
8	DEVDAT = ADDRESS OF DEVICE DATA BLOCK TYPING COMMAND	
9	;JDAT = ADDRESS OF JOB AREA, = Ø IF NO JOB AREA	
Ø	PROG = ADDRESS OF PROGRAM AREA, Ø MEANS NOT IN CORE OR NO CORE	
1	FIOS IS SET TO 0, USED FOR ADDRESS OF SUBSEQUENT CALLS	,
2	DEVDAT IS ALSO PUSHED ON END OF PD LIST SO IT MAY BE DESTROYED.	
3 4	UPON RETURN FROM COMMAND SETUP ROUTINE, A CR-LF IS ADDED TO	
5	MESSAGE AND ITY IS STARTED ON TTY SPECIFIED BY -1(PDP)	1
6	SEVERAL COMMAND FLAGS ARE CHECKED BEFORF DISPATCHING TO COMMAND SETUP ROUTINES TO SEE IF COMMAND IS LEGAL AT THIS TIME	-
7	SEVERAL MORE FLAGS ARE CHECKED UPON RETURN FROM COMMAND SETUP	
8	ROUTINES(UNLESS AN ERROR HAS OCCURRED) FOR STANDARD	
9	COMMAND RESPONSE	
Ø	IF AN ERROR OCCURS, THE JOB NO. (ITEM) SHOULD BE Ø ON RETURN	
1	SC THAT JOB WILL NOT BE INITIALIZED IF FIRST COMMAND,	t
2	FRRMES ROUTINE WILL SET ITEM TO Ø	
3		
4 5	SINCE THE COMMAND DECODER IS CALLED FROM THE CLOCK ROUTINE	-
6	;COMMAND SETUP ROUTINE MUST RUN TO COMPLETION QUICKLY ;IF a command function cannot do this, it must just set	
7	THE JOB TO RUNABLE STATUS AND RETURN IMMEDIATELY	
8	FOR DELAY THE COMMAND FOR LATER EXECUTION	,

	ZRCC ØS	5 JUN 69				
49				INTERNA	L COMMAND	
5Ø				INTERNA	L FTLOGIN, FTSWAP, FTTI	ME
51				EXTERNA	L COMENT, TTYCOM, JRTST	S,JOBMAX,JBTDAT,JBTADR,JOBHCU
52					L CONFIG, HIGHJB	
53				FXTERNA	L TTYSTR, TTYUSR, TTYAT	T
54				FXTERNA	L TTYTAB, PUNIT, TTYATI	
55				EXTERNA	L ADRERR, ANYACT, ASSAS	G, COREØ, DAMESS, DEVLG, DEVPHY, DEVSRC
56						GETWD1, GETWDU, KSTOP, CORE1, MONJOB, DECP1
57						T, PHOLD, PRNAME, RADX10, RELEAS
58					L RELEAS, RESET, SETRUN	
59					L STOTAC, UPTIME, USRXI	
60				1		
61						
62			000012	T=BUFPN	T :TEMPORARY A	C18
63			000013	T1=BUFW		
64			000014	T2=000		
65			000015	T3=AC1		
66			000016	T4=AC2		
67	000000	260140	0000000		PUSHJ POP, TTYCOM	SETUP DEVDAT, DAT, TAC, AND ITEM
68		200140	000000	COMMAND	PUSHU FUP; TTCOM	FOR ANY TTY WHICH HAS TYPED A COMM
69	aaaaa	047440	0000000	сомø:	POPJ PDP.	INDNE FOUND
70	000001 000002	26314Ø 26114Ø	0000000	COMD:	PUSH PDP, DEVDAT	SAVE TTY DEVICE DATA BLOCK ADDRESS
71			001721		PUSHJ PDP,CTEXT	ISCAN COMMAND NAME, RETURN IT IN TAC
-	000003	260140				
72	000004	200500	000002		MOVE T.TAC1	JCOPY COMMAND.
73	000005	211540	000001		MOVNI T1,1	ISET MASK ALL ONES
74	000006	242540	777772		LSH T1,-6	ICLEAR OUT ONE MORE CHAR.
75	000007	242500	000006		LSH T,6	SHIFT 1 COMMAND CHAR OFF
76		326500	000026		JUMPN T, -2	FIF NOT END OF COMMAND, GO AROUND
77	000011	201720	RANAR		MOVEI T4,0	ICLEAR FLAG REGISTER
78	000012	205520	777721		MOVSJ T,-DISPL	ISEARCH COMMAND TABLE FOR MATCH
79	000013	200612		COMLP:		JGET NEXT ENTRY FROM COMMAND TABLE
80	000014	630600	000013		TDZ T2,T1	IMASK OUT CHAR 5
81	000015	316112	000232'		CAMN TAC1,COMTAB(T)	JEXACT MATCH?
82	000016	254000	000227		JRST COMEND	FYES, THIS IS IT.
83	000017	312190	000014		CAME TAC1,T2	3MATCH?
84	000020	254000	000024		JRST COMNER	INOT EVEN GOOD MASK
85	300021	662700	000001		TROE T4,1	IMATCHES MASKED, IS THIS FIRST ONE
86	P00022	664790	0000002		TROA T4,2	IND, SET 2ND OCCUR FLAG
87	000023	200640	000012		MOVE T3,T	IYES, COPY CURRENT INDEX
88	000024	253590	0000131	COMNEQ:	ADRUN T,COMLP	IND, KEEP LOOKING
89	000025	306790	000001		CAIN T4,1	IDID ONE AND ONLY ONE COMMAND MATCH?
90	000026	200590	000015		MOVE T, T3	IYES, GET ITS INDEX

	900027	200112	000311'	COMEND	MOVE TAC1, DISP(T)	IGET DISPATCH TABLE ENTRY.
92	000030		000002		PUSH PDP,TAC1	ISAVE RH(DISPATCH AQR,+BITS)
93	000031	200514	000000		MOVE T, JRTSTS(ITEM)	ISAVE RH(DISPATCH ADR.+BITS) IJOB STATUS WORD FOR THIS JOB
94				IFN FTL(JGIN,<	
95	000032	607500	000004		TLNŅ T,JLOG	IS JOB LOGGED IN?
96		603170			TLNE TAC1,NOLOG	IN IND, CAN COMMAND PROCEED WITH NO LOGIN?
97	000034	254000	000041'		JRST CHKNO	IYES
98	000035	265040	000134 744634		JSP TAC,COMER	IND, TYPE "LOGIN PLEASE"
99	ØØØØ36	46237Ø	744634		ASCIZ /LOGIN PL	EASE
	000037	202411	442602			
100	ØØØØ40	516121	505000	1		
171				>		
102	000041	326200	000070'	CHKNO:	JUMPN ITEM, CHKRUN	JOB NUMBER ALREADY ASSIGNED? ING, DOES THIS COMMAND NEED A JOB NUMBER?
103	000042	603100	200000		TLNE TAC1, NOJOBN	ING, DOES THIS COMMAND NEED A JOB NUMBER?
104	000043	254000	0001371		JRST COMGO	INO
105	000044	201200	000001		MOVEI ITEM,1	INO IYES, SCAN FOR ONE STARTING WITH 1
106	000045	200504	000031'		MOVE T, JRTSTS(ITEM)	ISCAN FOR FREE JOB NO.
107	000046	607590	240000		TLNN T, JNA+CMWB	THIS NUMBER ASSIGNED?
178	000047	254000	000060			IND, SO USE THIS NUMBER
1 /1 Q	000050	305270	000000		CALCE TTEM. JOBMAX	YES, IS THE MAX, JOB NO.?
	000051	344200				
			000134			IND, KEEP LOOKING Jyes, none left, print "job capacity excreded"
	P00053	452370	220206		JSP TAC, COMER ASCIZ /JOB CAPACITY EXC	FEDED
112	000054	406410	141622		ABOIZ FOOD CALACITE END	
		522624				
		416130				
113			200000	/		
114		120011	CDIVDIVD	•		
115						I EVEN THOUGH THIS IS A NEW JOB NUMBER
116						IT MAY HAVE CORE ASSIGNED NOW BECAUSE IT WAS DEL
117						
118						J UNTIL IT COULD BE SWAPPED IN(LOGIN WITH CORE FU
119	aaaaka	201540	400000	NEWJORS	MOVEI T1,ASSCON	ISET ASSIGNED BY CONSOLE BIT FOR TTY
120	0000061	436546	000004		TORM TIADEVMOD(DEVDAT)	ISO OTHER JORS CAN NOT USE
121		402006			SETZM DEVLOG(DEVDAT)	ISET LOGICAL NAME TO ZERO
122	·				CELES SEVESSIOLVSAL)	J "TTY" IS PUBLIC LOGICAL NAME
123				IEN ETT	1MF.<	A THE POLICEUTICE COLORY ARGE
124	000063	402004	000000			ICLEAR INCREMENTAL JOB RUNNING TIME
125		402004			SETZM TTIME(ITEM)	ICLEAR TOTAL JOB RUNNING TIME
126	1.07.004			>	APPENDING TOP	FORERA FORAL DOD ADMAINS FIRE
127				IFN FTK	~7.4	
128				4 C 19 E 1 K (EXTERN JETKOT	
129	000065	402004	000000		SETZM BEKCTITEM	ICLEAR CORE-RUNNING TIME PRODUCT CODE
130	* 0 * 0 0 0 0	-02014		>	SEIZH BOLKOTATEN/	FOREWA CONCERDINATING ITHE ENOLOGIE CODE
100				/		
171						
131 132	000044	313000	000000		CAMLE ITEM;HIGHJB	HIGHEST JOB NUMBER ASSIGNED?

COMCON	- COMMAN /RCC Ø3		R AND SA	VEGET ROL	JTINES	- V433 MACRO,V3	36 19:02 4-JUN-69 PAGE 16
134 135 136 137 138	000071 000072 000073	603500 607100 254000 265040 502310 425012 425013 432232	400000 010000 000101 540646 454640 641500 251650	CHKRUN:	TLNE TLNN JRST JSP ASCIZ		JRUN BIT ON IN JOB STATUS? JYES, DOES THIS COMMAND REQUIRE A JOB? JNO JYES. FIRST
139 14Ø	000100	064240	000000	/			
141	000101			CHKACT:			
142							
143				IFN PROU			
144					MOVE J	DAT, JBTUAT (ITEM)	JADDRESS OF JOB DATA AREA
145 146	000101	200344	000000	>	MOVE P	ROG IRTADR (ITEM)	XWD PROTECTION, RELOCATION
147	000101	200344	000000	IFN FTS		KOG JOB TABRATIEN /	JAND PROFESTION RELOCATION
148	000102	603100	024000			AC1, INCORINOTRAN	IMUST JOB NOT BE SWAPPING OR
149							; IF JOB HAS CORE ASSIGNED, MUST IT BE
150							; IN PHYSICAL CORE (RATHER THAN DISK OR ON ITS WAY)
151	000103		002000		TLNN T		IYES, IS JOB ON DISK OR ON ITS WAY?
152	000104	254000	0001131		JRST C		INO
153	000105		004000			AC1, INCOR	;YES, MUST JOB BE IN CORE? ind, is a swap for this job in progress?
154 155	000106	322340	000113'		JUMPE	PROG, CHKCO2	I NO, SO COMMAND MUST BE DELAYED
155							; (EITHER BECAUSE SWAP IN PROGRESS OR
157							; JOB ON DISK AND MUST BE IN PHY CORE)
158	000107	541100	001676'		HRRI T	AC1.DLYCM	JASSUME JOB MUST BE IN PHY CORE
159	-						\$ SO SET TO SWAP JOB IN
160	000110	607100	004000			AC1, INCOR	JIS THIS TRUE?
161			~		HRRIT	AC1, DLYCM1	IND, JUST DELAY COMMAND UNTIL SWAP OUT OF IN IS FINISHE
162	000111	541100	001677'	U		04015	JAND DISPATCH TO DELAY COMMAND
163	000112	254000	000143'	>	JRST C	UM[][5	JAND DISPATUM TO DELAT COMMAND
164 165	000113	603100	040000		TINET	AC1,NOACT	ICAN COMMAND BE PERFORMED WITH ACTIVE DEVICES?
166	000113	260140	001665'			PDP, RUNCHK	ING. RETURN IF JOB STOPPED AND NO ACTIVE DEVICES
167	000115	603100				AC1 NOCORE	IDDES THIS COMMAND NEED CORE?
168	000116	254000	000137'	0	JRST C		ING. GO DISPATCH
169	000117	326340	000125			PROG, CHKXPN	JYES, IS CORE IN MEMORY?
17Ø		265040	000134'		JSP TA	C,COMER	IND, PRINT "NO CORE ASSIGNED"
171	000121	472364	041636		ASCIZ	IND CORE ASSIGNED	
		512124	040646				
	000123	516230	747212				
172	000124	420321	200000	/			

173 174	200125	607100	202024	CHKXPN;	TUNN TAC1, PLEXPN	IDDES THIS COMMAND NEED CORE TO BE EXPANDED?
175	20012E 200127		0001371		URST COMGO	1NO
176			<i>a</i> øø966		HLRE IOS, JOBHCU(JDAT)	JYES, IS CORE STILL COMPRESSED(SAVE DID NOT G TO COMPLETION)
177	000130	345000	000137'		ADJGE IOS,COMGO	:LH=-2 DURING SAVE, WHEN CORE COMPRESSED
178						ILH=-1 DURING SAVE OF HIGH SEG, OR GET OF LOW
179						I OR HIGH SEG
180		260140				IYES, EXPAND CORE FIRST
181	000132	255000	000000		JFCL	IIGNORE ADDRESS CHECK ERROR, WE TRIED
182				IFN FTSI		
183 184	000133	254000	000111'		JRST CHKDLY	IDELAY COMMAND BECAUSE COMMAND DECODER ACS AF
185						I ALL GONE, NEXT TIME JOBHCU WILL BE Ø
186				>		
187				IFE FTS		
188				TLF FI21		
189					JRST COMDIS	DELAY COMMAND TILL NEXT CLOCK TICK
190				>	JKSI CUMUIS	
91				·		
192	000134	205100	000400	COMERI	MOVSI TAC1, NOINCK	
93	000135	202103	000000		MOVEM TAC1, (PDP)	
94	000136	201100	0004331			CALL ERROR MESSAGE ROUTINE
95						JOREE ERROR HESSAGE ROOTINE
96	000137		002000	COMGO:	MOVSI IOS, CMWRG	
97	000140		200000		TLZN T,CMWB	ICLEAR CHWBI WAS JOB IN COMM WAIT
98	000141		000000		ANDCAM IOS, (PDP)	ING, CLEAR REQUEU BIT IN DISP. FLAGS
99	000142	202504	0000451		MOVEM T, JBTSTS(ITEM)	
00						
Ø1						
202 203	000143	201000	000000	COMDIS:	MOVEI IOS,Ø	ICLEAR IOS FOR SETTING DISPATCH ADDRESSES
	000144	260142	000000		PUSHJ PDP, (TAC1)	IDISPATCH TO COMMAND SETUP ROUTINE.

204 205				RETURN FROM COM	MAND SETUP ROUT	INE
	000145	262140	000013	COMRET: POP PDP,	T1	IRESTORE COMMAND FLAGS
207	000146	26214Ø	000006	POP PDP,	DEVDAT	IRESTORE ITY DDB ADDRESS.
208	_	_		IFN FTTTYSER,<		
209				EXTERN	TITAKR, TISYNC	
210	000147	135406	000000	LDB	TEM, TITAKR (DEVD	AT) JGET BREAK CHARACTER
211	000150	260140	0002221	PUSHJ	PDP,SKPBRK	ISKIP TO BREAK CHAR
212		370006	000000	505	TISYNC(DEVDAT)	REDUCE LINE COUNT
213				>		······································
	000152	205500	400000	MOVSI T,	400000	
215		135040	000000		TAC, PUNIT	
216			000000			IYES, TURN OFF SIGN BIT
217			000000	SOS	COMENT	
218			000161'	JUMPN IT	EM, COMRT1	IDID AN ERROR OCCUR?
219		607540	200000		NOJOBN	II.E., ITEM=@ AND NOJOBN=0?
220		205540			NOINCK+ERRFLG+	
221						FREQUEUE JOR IF NECESSARY.
222						
	000161	200504	0001421	COMRT1: MOVE T, J	RTSTS(ITFM)	JOB STATUS WORD
	000162			TLNN T1,		SUPPRESS JOB INIT, CHECK?
	000163		040000	TLOE T.J		IND, IS JOB INIT BIT ALREADY SET?
226	000164	254090	000200	JRST PCR		IYES,
	000165		000161'		JBTSTS(ITEM)	IND, SO SET IT THIS COMMAND
	000166		ABABAB	PUSHJ PDI		ATTACH TTY TO JOB
	000167		ØØØØØØØ	JFCL	• • • • •	JIGNORE IF CAN NOT (SHOULD NEVER HAPPEN)
	000170		0020251	PUSHJ PDI	PINIMES	IAND PRINT "JOB "
231	000171		220000	ASCI7 /J		
	000172		000004	MOVE TAC		JPRINT JOB NUMBER
233	000173		000000	PUSHJ PDI		
234	000174	260140	0020321	PUSHJ PDI		
235	000175		000000	MOVEI TA		IPRINT SYSTEM CONFIGURATION NAME
236	000176		0020171	PUSHJ PDI		
237				IFN FTLOGIN, <		
238	000177	260140	002016'	PUSHJ PDI	P.CRIE	
239	0001/7	2001-0	000010	>	, on L	
240				IFE FILOGIN, <		
241				PUSHJ PD	P.PRSPC	
242					PDP, DAYTM1	
243				>	0.1991.1112	

244	000200	603540	000001	PCRIFI	TLNE T1, ERRFLG		IDID AN ERROR OCCUR?
245	000201	260140	0020301		PUSHJ PDP, PRQM		IYES. APPEND ?
246	000202	607540	000200		TLNN T1		SUPRESS CRLF?
247	000203	260140	002016		PUSHJ P		INO
248	000204	607540	000100		TLNN T1		SUPRESS PRINTING PERIOD?
249	000205	260140	002041'			DP, PRPER	INO
250	000206		0002131			TEM, PCRLF1	JOB DOES NOT RUN IF ERROR OF NO JOB NO, ASSI
251	000207	603540	000040			TTYRNU	1 JOB TO RUN WHEN TTY FINISHED TYPING?
252	1.00211		200010			, , , , , , , , , , , , , , , , , , , ,	I COMMAND RESPONSE (TTY TO USER MODE)?
253	000210	260140	ØØØØØØ		PUSHJ PDP,TTYUSR		IYES, CALL SCANNER ROUTINE
254	000211	603540	000020		TLNE T1, TTYRNC		IND, JOB TO RUN AND REMAIN IN MONITOR MODE?
255	000212	260140	000000			DP, SETRUN	IYES, CALL SCANNER ROUTINE
256	000213	607540	000010	PCRLF1:	TLNN T1, NOMESS		IS THERE A MESSAGE?
257	000214	260140	ดีอื่ออื่ออื่อ		PUSHJ PDP, TTYSTR		IYES, START TTY TYPING IT OUT
258	1.2.211			1 F N	FTSWAP.		
259						PJOBN, REQUE	
260	000215	135200	ØØØØØØ		LDB	ITEM PJOBN	IGET JOB NUMBER FROM TTY DEVICE DATA BLOCK
261	000216	322200	000000		JUMPE	TTEM, CPOPJ	
262	000217	603540	002000		TLNE	T1, CMWRQ	REQUEVE JOB AFTER COMMAND WAIT OR ERROR?
263	000220	254000	000000		JRST	REQUE	IYES
264				>			
265	000221	26314Ø	000000		POPJ PD	Ρ,	
266							
267				IFN FTT	TYSER,<	EXTERN SPCHEK	,TITAKR,GETCHR,TPOPJ
268							
269	000222	261140	000001	SKPBRK:		PDP,TAC	
27Ø	000223	260140	000000	SKPBR2:		PDP, SPCHEK	
271	000224	254070	ØØØ227'		JRST	SKPBR1	
272	ØØØ225	603040	000000		TLNE	TAC, BREAKB	JIS THIS CHAR THE BREAK?
273	000226	254000	000000		JRST	TPOPJ	IYES. RESTORE TAC, RETURN
274	000227	260140		SKPBR1:		PDP,GETCHR	
275	PØØ230	326400	000223		JUMPN	TEM, SKPBR2	ILOOK FURTHER FOR BREAK
276	000231	254000	000226		JRST	TPOPJ	JUNLESS NO MORF CHARS
277				>			

COMCON -	COMMAND DECODER AND S RCC Ø3 JUN 69	AVEGET ROUTINES	- V433 MACRO.V36 19102 4-JUN-69 PAGE 20
278 279		ITABLE OF CONS	OLE COMMANDS
280		INTERNAL ETATT	ACH, FTTIME, FTTALK, FTEXAMINE, FTLOGIN, FTREASSIGN
281		INTERNAL FTFIN	ISH, FICCI
282			-
283		IBITS CHECKED	BEFORE DISPATCHING TO COMMAND SETUP ROUTINE
284			
285 286	400000	NOCORE = 400000	IND CORE NEEDED FOR COMMAND
287	200000 100000	N0J0BN=200000	IND JOB NUMBER NEEDED FOR COMMAND
288	100000 040000	NOLUGINEIDADAD	JOB DOES NOT NEED TO BE ALREADY LOGGED IN.
289	020000	NOACT=40000 NOTRAN=20000	
290	010000		
291	- 20080	TOUGH TODOD	JAN EXPLICIT +C MUST BE TYPED BY USER BEFORE COMMAND J IS EXECUTED IF JOB IS RUNNING
292			JOB MUST BE SWAPPED IN IF IT HAS LOGICAL CORE
293	004000	INCOR=4000	JUSED ONLY BY COMMAND DISPATCH
294			; DOES NOT APPEAR IN COMMAND TABLE
295 296	024000	INCORE=4000:NO	TRAN JCOMMAND MUST BE DELAYED IE JOB HAS LOCICAL CORE
297			FWHICH IS ON DISK OR ON ITS WAY IN OR OUT.
298			; JOB WILL BE SWAPPED IN (SEE DLYCOM)
299	ØØØØØ A	PLSXPN==4	; AND IS NOT SITTING QUIETLY IN CORE(IE NO SWAPPING TRANSFER)
300	000004	PLSAPN==4	FLURE MUST BE EXPANDED IF STILL COMPRESSED BY SAVE NOT COINC
301			; TO COMPLETION (CONTROL C OR DEVICE OK?)
302			; MUST BE USFD IN CONJUNCTION WITH COMMANDS WHICH ; NEED CORE AND NEED IT IN CORE
303			THEE CORE AND NEED IT IN CORE
304			
305		BITS CHECKED A	FTER RETURN FROM COMMAND SETUP ROUTINE
306 307			
308	002000		REQUEUE JOB AFTER COMMAND WAIT
309	001000 000400		DON'T PRINT DATE DURING JOB INTERROGATION
310	000200 000400	NOINCK=400 Nocrlf=200	INO CHECK FOR JOR INITIALIZATION (JNA=0)
311	000100	NOPER=100	IND PRINTING OF CRLF
312	000040	TTYRNU=40	;NO PRINTING OF PERIOD ;SET TTY TO USFR MODE AND START JOB
313			; WHEN COMMAND RESPONSE STOPS TYPING
314	000020	TTYRNC=20	KEEP TTY IN COMMAND MODE AND START JOB
315			; WHEN COMMAND RESPONSE STOPS TYPING
316	000010	NOMESS=10	IND COMMAND RESPONSE EVER, DO NOT CALL TTYSTR
317 318			
318			14 TAKEN ABOVE BY 'PLSXPN' BIT
320			
321	00001	ERRFLG=1	
		2	;COMMAND ERROR

		-
CON - COMMAND DE /RCC Ø3 JUN	CODER AND SAVEGET ROUTINES - V433 MACRO,V36 19102 4-JUN-69 PAGE 21 69	
322	DEFINE NAMES<	
323	C START, START, NOPER I TTYRU I INCORE I NOACTI NORUN	
324 325	C HALT,STOP,NOCORE!NOJOBN!NOLOGIN!NOINCK:CMWRQ C KJOB,KJOB,NOCORE!NOJOBN!NOINCK!NOLOGIN!NOACT!NORUN!NOPER!NOCRLF!	NOMESSINO
326		
327	C <>, CBLANK, NOCOREINOJOBNINOLOGININOINCKINOCRLF	
328 329	C R,RCOM,NOCOREINOPERITTYRNU!NOCRLFINOACTINORUNINOTRAN C run,runcom,nocore:noperittyrnu!nocrlf!noactinoruninotran	
330	C CORE, CORE, NOCORE INCRUNICHWRG! INCORE INCACT INCTRAN	
331	C GET,GET,NOCRLF!NOPER!TTYRNC!NOCORE!NDACT!NORUN!NOTRAN	
332	C SAVE, SAVE, NOCRLF: NOPERITTYRNC: INCORE: NOACT: NORUNIPLSXPN	
333 334	IFN FT2REL,< c ssave,ssave,nocrlf:noper:ttyrnc:incore:noact:norun:plsxpn	
335	>	
336	C CONTINUE, CONT, NOPER I TTYRNU! INCORE INORUN	
337 338	IFN FTEXAMINE,< C D,DCOM,CMWRQ!INCORE	
339	C E, EGOM, NOCREFICMWRG! INCORE	
340	>	
341	C PJOB, PJOB, NOCORE	
342	C ASSIGN, ASSIGN, NOCOPE	
343	C DEASSI, DEASSIGN, NOCOREINOJOBNINOINCK	
344 345	C DDT,DDTGO,NOPER!TTYRNU!INCOREINDRUN!PLSXPN IFN FTFINISH,<	
345	IFN FFFINISH, CFINI, TTYRNCINOACT: INCORE: NORUN	
347	>	
348	C REENTER, REENTER, TTYRNUINOPERIINCOREINORUNIPLSXPN	-
349 350	C CSTART,STARTC,TTYRNC!INCORE!NOACT!NORUN!PLSXPN C CCONTINUE,CONTC,TTYRNC!INCORE!NORUN	
351	IFN FTATTACH, <	
352	C DETACH, DETACH, NOPEP+NOCRLF+NOCRE!NOJOBNINOINCK	
353 354	C ATTACH, ATTACH, NOCOPEINOJOBNINOLOGININOINCK	
355	C DAYTIME, DAYTIM, NOCORE : NOJOBN : NOLOGIN : NOINCK	
356	IFN FTTIME,<	
357 358	C TIME, RUNTIM, NOCORE!NOLOGIN!NOINCK	
359	C RESOURCES, FREDEV, NOCORE ! NO LOGIN! NO LOGIN! NO INCK	1
360	IFN FTLOGIN, <	
361	C SCHEDULE, SKEDUL, NOCOREINGJOBNINOLOGININOINCK	
362 363	> IFN FITALK,<	
364	C TALK, TALK, NOCRLF+NOPER+NOCORE: NOJOBN: NOLOGIN: NOMESS: NOINCK	1
365	>	
366 367	IFN FTLOGIN,< C LOGIN,CLOGIN,NOCOREINOLOGININOPERITTYRNUINOCRLFINOACTINORUNINOTR	AN
368	>	
369	IFE FTLOGIN, <	
370	C LOGIN, CPOPJ, NOCORE!NDACT!NORUN!NOTRAN	÷
371 372	IFN FIREASSIGN, <	
373	C REASSI, REASS, NOCORE ! NOACT ! INCORE ! CMWRQ ! NORUN	
374	>	

COMCON	- COMMAND DECODER AND /RCC Ø3 JUN 69	SAVEGET	ROUTINES	~ v433	MACRO,	V36	19:02	4	UN~69	PAG	E 21-1	
375			C HELP	HELPIN	OCORE ! NOL	.OGIN	INOPER	ITTY	RNUIN	OCRL	FINDACTINORUNINOTRAN	N
376 377		IFN F	C SYSTA TCCL;<	AT,SYST	AT, NOCORE	INOL	OGININ	OACT	INORU	NINO	CRLF:NOPER:TTYRNUING	TRAP
378 379			C COMP	LE, CCLF	RUN, NOCOR	EINO	PERITT	YRNU	INOCR	LFII	NCORE I NOACT ! NORUN	
38Ø 381			C CREF	CCLRUN	NOCOREIN	OPER	LITTYRN	UINO	CRLF!	INCO	COREINDACTINORUN REINDACTINORUN	
382			C DEBUC	CCLRUN	N.NOCORE!	NOPE	RITTYR	NU!N	OCRLF	IINC	OREINDACTINORUN COREINDACTINORUN	
383 384			C DIREC	CCLR,	JN, NOCORE	INOP	ERITTY	RNUI	NOCRII	ETTN	COREINDACTINORUN REINDACTINORUN	
385 386			C EXECU	ⅈℸℇℴℂℂℾℙ	RUN,NOCOR	EINO	PERITT	YRNU	INDCR	.F!!!	NCOREINDACTINORUN	
387			C LOAD,	CCLRUN	NOCOREIN	OPER	!TTYRN	UINO	CRLF1	INCO	REINOACTINORUN REINOACTINORUN	
388 389			C MAKE,	CCLRUN,	NOCORE!N	OPFR	!TTYRN	UIN0	CRLF!	INCO	REINOACTINORUN COREINDACTINORUN	
390 391			C TECO,	CCLRUN,	NOCOREIN	OPER	! TTYRN	UINO	CRLF!	INCOR	REINDACTINORUN	
392			C CTEST	CCLRUN;	NOCORE!N	OPER Nope	ITTYRN Rittyr	U1N0: NU1N:	CRLF!) DCRLF!		REINOACTINORUN DREINOACTINORUN	
393 394		>				_						

COMCON	- COMMAN /RCC Ø3		R AND SA	VEGET ROUTINES -	V433 MACR	0,V36 19:02	4-JUN-69 PAGE
395				IGENERATE TABLE	OF SIXBIT CO	MMAND NAMES	
396				DEFINE C(A,B,D)	/		
397 398				SIXBIT			
390				>	1017		
400							
401	000232			COMTAB: NAMES+			
402	000232	636441	626400		/START/>		
403	000233	504154	640000	<sixbit< th=""><th></th><th></th><th></th></sixbit<>			
404	000234	535257	420000	<sixbit< th=""><th>/KJOB/></th><th></th><th></th></sixbit<>	/KJOB/>		
405	000235	000000	0000000	<sixbit< th=""><th></th><th></th><th></th></sixbit<>			
406	000236	620000	000000	<sixbit< th=""><th>/R/></th><th></th><th></th></sixbit<>	/R/>		
4017	000237	626556	000000	<sixbit< th=""><th></th><th></th><th></th></sixbit<>			
4Ø8	000240	435762	450000		/CORE/>		
409	000241	474564	ØØØØØØ	<sixbit< th=""><th></th><th></th><th></th></sixbit<>			
41Ø	000242	634166	450000		/SAVE/>		
411	000243	636341	664500		/SSAVE/>		
412	000244	435756	645156		/CONTINUE/>		
413	000245	440000	000000	<sixbit< th=""><th>/0/></th><th></th><th></th></sixbit<>	/0/>		
414	000246	450000	000000	<sixbit< th=""><th>/E/></th><th></th><th></th></sixbit<>	/E/>		
415	000247	605257	420000		/PJOB/>		
416	000250	416363	514756		/ASSIGN/>		
417	000251	444541	636351		/DEASSI/>		
418	000252	444464	000000	<sixbit< th=""><th></th><th></th><th></th></sixbit<>			
419	000253	465156	516350		/FINISH/>		
420	000254	624545	566445		/REENTER/>		
421	ØØØ255	436364	416264		/CSTART/>		
422	000256	434357	566451		/CCONTINUE/> /DETACH/>		
423 424	ØØØ257 ØØØ26Ø	444564 416464	41435Ø 41435Ø		/ATTACH/>		
425	000200 000261	444171	645155		/DAYTIME/>		
426	000262	645155	450000		/TIME/>		
427	000263	624563	576562		/RESOURCES/>		
428	000264	634350	454465		/SCHEDULE/>		
429	000265	644154	530000		/TALK/>		
430	000266	545747	515600	<sixpit< th=""><th>/LOGIN/></th><th></th><th></th></sixpit<>	/LOGIN/>		
431	000267	624541	636351	<sixbit< th=""><th>/REASSI/></th><th></th><th></th></sixbit<>	/REASSI/>		
432	000270	504554	600000		/HELP/>		
433	000271	637163	644164		/SYSTAT/>		
434	000272	435755	605154		/COMPILE/>		
435	000273	436245	416445		/CREATE/>		
436	000274	436245	460000		/CREF/>		
437	000275	444542	654700		/DEBUG/>		
438 439	ØØØ276 ØØ277	444554 445162	456445 454364		/DELÉTE/> /DIRFCT/>		
439	000277	454451	640000		/EDIT/>		
441	000301	457045	436564		/EXECUTE/>		
442	000302	545163	640000		/LIST/>		
443	000303	545741	440000		/LOAD/>		
444	000304	554153	450000		/MAKE/>		
445	000305	624556	415545		/RENAME/>		
446	000306	644543	570000	<sixrit< th=""><th>/TECO/></th><th></th><th></th></sixrit<>	/TECO/>		
447	000307	647160	450000	<sixrit< th=""><th>/TYPE/></th><th></th><th></th></sixrit<>	/TYPE/>		

COMCON - COMMAND DECODER AND SAVEGET ROUTINES - V433 MACRO,V36 19102 4-JUN-69 PAGE 22-1 /RCC 03 JUN 69

448 ØØØ31Ø 436445 6364ØØ <\$IXBIT /CTEST/> 449 ØØØØ57 DISPL=,-COMTAB ;LENGTH OF TABLE

45Ø				GENER	ATE THE DI	SPATCH TABLE PLUS SPECIAL BITS
451						
452				7	C(A,B,D)	(D)
453				>	·-	
454				DISP:	NAMEST	
	000311 000311	074140	000436'		CTADT	(NOPERITTYRNUIINCOREINOACTINORUN)
	000312	702400	000454			
	000313	770710	0004101		KJÖB	(NOCORE INOJOBNINGLOGININGINCKICHARAGINORUNINOPERINOCRLFINGMESSINDT (NOCOREINOJOBNINGINCKINGLOGININOACTINORUNINOPERINOCRLFINGMESSINDT
	000314	700600	001570		CBLANK	(NOCORE IND JOBNINOLOGININOINCKINOCRLF) (NOCORE INOPERITTYRNUINOCRLFINOACTINORUNINOTRAN)
	000315	470340	000617'		RCOM	(NOCORE INOPERITYRNUINOCREFINDACTINORUNINOTRAN) (NOCORE INOPERITYRNUINOCREFINDACTINORUNINOTRAN)
	000316	470340	000625'		RUNCOM	(NOCORE INDERITIENDINGERE INOACT INOTRAN) (NOCORE INORUNICHWRGIINCORE INOACT INOTRAN)
	000317	476000	000473'			(NOCRLFINDPERITTYRNCINOCOREINOACTINORUNINOTRAN)
463	000320	470320	000536		GET	INCODE ETNOPERITTYRNCIINCOREINDACTINURUNIPLSAPN/
	000321	074324	000531'		SAVE SSAVE	(NOCRLFINOPERITTYRNC!INCORE!NOACT!NORUN!PLSXPN)
	000322	074324	ØØØ532' ØØØ463'		CONT	(NOPERITTYRNUIINCOREINORUN)
	000323	034140	001504'		DCOM	(CMWRQ!INCORE)
467	000324	026000 026200	001504		ECOM	(NOCRLFICMWRGIINCORE)
468	000325	020200	201420	-		
469	000326	400000	000405'	7	PJOB	(NOCORE)
470	000327	400000	000633'		ASSIGN	(NOCORE)
471	000330	600400	000757'		DEASSIGN	(NOCOREINOJOBNINOINCK) (NOPERITTYRNUIINCOREINORUNIPLSXPN)
472	000331	034144	000446		DDTGO	(TTYRNCINOACTIINCOREINORUN)
473	000332	074020	001574		CFINI	(TTYRNU:NOPER:INCORE:NORUN:PLSXPN)
474	000333	034144	000444		STARTC	(TTYRNC!INCORE!NOACT!NORUN!PLSXPN)
475	000334	074024	000436		CONTC	(TTYRNC!INCORE!NORUN)
476	000335	034020	000463 001247		DETACH	(NOPER+NOCRLF+NOCORE ! NO JOBN ! NO INCK)
477	000336	600700 700400	ØØ124/		ATTACH	(NOCOREINOJORNINOLOGININOINCK)
478	000337 000340	700400	001312		DAYTIM	(NOCORE:NOJORN:NOLOGIN:NOINCK)
479	000340	500400	001350		RUNTIM	(NOCORFINGLOGININOINCK)
48Ø 481	000342	700400	001624		FREDEV	(NOCORFINOJOBNINOLOGININOINCK)
482	0000343	700400			SKEDUL	(NOCOREINOJOBNINOLOGININOINCK)
483	000344	700710			TALK	(NOCRLF+NOPEP+NOCORE:NOJOBN:NOLOGIN:NOMESS:NOINCK) (NOCRF:NOLOGIN:NOPER:TTYRNU:NOCRLF:NOACT:NORUN:NOTRAN)
484	000345	570340	000600	• Z	CLOGIN	(NOCORFINOLOGININOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDINOPERITIENDI
485	000346	476000	001015		REASS	(NOCORE ! NOACT ! INCORE ! CMWRQ ! NORUN) (NOCORE ! NOLOG IN ! NOPER ! TTYRNU ! NOCRLF ! NOACT ! NORUN ! NOTRAN)
486	000347	570340			HELP	ANDCORFINDIOCININDACTINORUNINDCRLFINUPERI ITRNDINDINARY
487	000350	570340			SYSTAT	INCODE INDEEDITTYRNIINOCREFIINCOREINUAU INURUNI
488	000351	474340			CCLRUN	(NOCORCINOPERITTYRNUINOCREFINCOREINDACTINURUN)
489	000352	474340			CCLRUN	AND CORFINDER STATERNII NOCRI FLINCOREINDAUTINURUN)
490	000353	474340			CCLRUN	AND COPE IN OPERITYRNIIINOCRIFIINCORLINUCUUU
491	000354	474340			CCLRUN	(NOCOREINOPERITTYRNUINOCRLEINOCREINOACTINORUN)
492	000355	47434Ø 47434Ø			CCLRUN	IN OCOPETNOREDITTYRNIIINOCREFITNCOREINUAUTINURUN7
493 494	000356 000357				CCLRUN	INDCOREINOPERITTYRNUINOCRLEINOCREINDACTINURUNI
494	000351 000360				CCLRUN	IN OCORE IN OPERITTYRNUI NOCRI FIINCORE IN OAUTINURUNT
495	000361				CCLRUN	(NOCORF INOPERITTYRNUINOCRLF I INCORE INOACTINORUN)
490	000361				CCLRUN	(NOCORF INOPER ITYRNUINOCRLF I INCORE INOACTINORUN)
498	000363		000570	• 7	CCLRUN	(NOCORFINOPERITTYRNUINOCREFINCOREINOACTINORUN)
499	000364				CCLRUN	(NOCORF INOPERITTYRNUINOCRLFIINCOREINOAGTINORUN) (NOCORFINOPERITTYRNUINOCRLFIINCOREINOACTINORUN)
500	000365		000570		CCLRUN	(NOCORFINDPERITTYRNUINOCREFINOCREINOACTINORUN) (NOCORFINDPERITTYRNUINOCREFINOCREINOACTINORUN)
501	007366			1 2	CCLRUN	(NOCORE INOPERITIYANUINOCREFIINCORE INOACTINORUN)

COMCON		D DECODE JUN 69	R AND SAVEGET	ROUTINES - V433	MACRO,V36 19102	4-JUN-69 PAGE 23-1
503 504 505	000370	700400	001573'	XWD NOCORE+NO.	IOBN+NOLOGIN+NOINCK	NOCOM

	1100 00	5 JUN 69				
506						
507						WHICH IS CALLED FROM CLOCK ROUTINE
508					FOLLOWING AC'S SET:	
509						STRING(SPACE OR CR AFTER COMMAND NAME)
510					= JOB NUMBER	
511 512					BYTE POINTER TO LAST O	
513						TA BLOCK INITIATING COMMAND REA, ≖ Ø IF NO JOB AREA
514					XWD PROTECTION, RELOCATI	
515				; I OS = Ø		UN, DIF NU CORE
516				1103-0		
517				LIPON	PETHEN FROM COMMAND SET	'UP ROUTINE, A CR-LF IS ADDED IF
518					D AND TTY IS STARTED	or monitury w prefr to Aborn tr
519					S SHO ITT IS STARTED	
520				SINCE	THE COMMAND DECODER 19	CALLED FROM THE CLOCK ROUTINE
521						RUN TO COMPLETION QUICKLY
522						DO THIS, IT MUST JUST SET
523					OB TO A RUNABLE STATUS	
524						
525					EXTERN TTYFNU	
526						
527	000371	322340	000216'	CORØ:	JUMPE PROG:CPOPJ	RETURN IF JOB DOES NOT HAVE CORE
528						
529	000372	265100	000000		JSP TAC1,MONJOB	ISET TO RUN MONITOR JOB(PC IN EXEC MODE)
530						I RETURN HERE AT UUD LEVEL(NO ACS SET UP)
532	000373	201100			MOVEL TACLLESTOP	IPUT ERROR STOP ON END OF PDL
			0000000 0000000	1001.	JSP TAC, MONSTR	ISTART MONITOR JOB BY SETTING UP ACS AND
534		260140		10811	PUSHJ PDP,RESET PUSHJ PDP,TTYFNU	IRELEASE ALL IO DEVICES ASSIGNED TO THIS JOB
535	000370	200140	0000000		SWAP,<	FIND TTY FOR THIS JOB(SETUP ITEM WITH JOB NO.)
536				11.00 F 1	EXTERN ZERSWP NOCORO	
537	000377	260140	aaaaaa		PUSHJ PDP,NOCORQ	IPUT JOB IN NO CORE Q
538		260140			PUSHJ PDP,ZERSWP	JCLEAR SWAP SPACE (IF ANY) FOR LOW SEG
539		1.001.10	000000		CONG COPPENSE	J AND CLEAR SWP, SHF, IMGIN, IMGOUT FOR LOW SEG
540				>		I AND OLEAN SHRISHFILMGINIIMGDDI FOR LOW SHE
541					2REL. <	
542				• • • • • •	FXTERN KILHGH	
543	000401	260140	ØØØØØØ		PUSHJ PDP,KILHGH	IHIGH SEG FOR THIS USER, RETURN CORE
544						I REMOVE HIGH SEG FROM THIS USER LOGICAL ADDRESSING SP
545				CE		T STATE STOR SEG FROM SHID DOCK ESSIERE RUDESSING SP
546						I IF NO OTHER USERS IN CORE ARE USING IT
547						I RETURN DISK SPACE IF NO LONGER SHARARLE HIGH SES
548				>		
549		201040			MOVEI TAC,0	IRETURN BOTH PHYSICAL AND LOGICAL CORE
		370003	000000		SOS (PDP)	INEGATE SKIP RETURN WHICH CORE1 WILL DO
55Ø 551		254000			JRST CORF1	INFGALE SKIP REIURN WHICH CUREI VILL DU

	- COMMAN	ND DECODE 3 JUN 69	ER AND SA	VEGET RO	UTINES -	- V433 MACRO.	V36 19102 4-JUN-69 PAGE 25
552 553 554				; "PJ08	" PRINT	JOB NUMBER OF J	OB TTY IS ATTACHED TO
555				INTERNA	L PJOB,C	ECLE	
556							
557	000405		000004	PJ08:		C,ITEM	JOB NO.
558 559	000406 000407		000173	DECLF:		DP,RADX10	PRINT TAC AS DEC, THEN CRLF
560	000407	254000	002016'		JRST CR	LF	
561							
562				1 "K.IOB	" KTEL A	TTACHED JOB	
563						UTRONED VOD	
564						TTYKIL, CPOPJ	
565				INTERNAL	L FTTIME	JOBKL	
566 567		300044					
568	000410	322200	000434 '	IFN	FTLOGIN	TEM. JOBKB	IWAS JOB INITIALIZED?
569	000411	627500	100004	16.0	TLZN	T,JLOG+JACCT	ATEST MACT ALSO IN CASE COMMAND WAS DELEVED
570	000412		0004221		JRST	KJOB2	JTEST JACCT ALSO IN CASE COMMAND WAS DELAYED
571	000413	661500	100000		TLO	T, JACCT	IDISABLE +C
572	000414	202504	000165'		MOVEM	T.JBTSTS(ITEM)	
573				IFN	FTSWAP,		
574 575	000415	260140	000565'		PUSHJ	PDP, ALOGN1	JATTACH TTY
576	000416	205040	000050	>	MOVSI	TAC TINDULANON	
577		432043	777777		XORM	TAC, TTYRNU+NOME TAC, -1(PDP)	ISET TTYRNU AND CLEAR NOMESS FOR COMRET
578	000420		0030531		MOVE	TAC, [SIXBIT /LC	DGOUT/J JNAME OF CUSP
579	000421	254000	000621'		JRST	ARCOM	
58Ø				>			
581	000422			KJOB21		_	
582 583				IFE FTSW			
584				>	JUMPE P	ROG, JOBKA	FYES. DOES JOB HAVE CORE IN MEMORY?
	000422	260140	002221		PUSH, L P	DP, GETMIN	JGET MINIMAL JOB AREA ON DISK OR CORE
-		322340	ØØ1677'			ROG DLYCM1	IDELAY COMMAND IF CORE ASSIGNED ON DISK
587	000424	265100	0003721			1,MONJOB	JYES, SCHEDULE MONITOR JOB(PC IN EXEC MODE)
588						- · · ·	I RETURN HERE AT UUD LEVEL WHEN SCHEDULED

COMCON	- COMMAND /RCC Ø3		AND SAV	EGET RO	UTINES -	V433 I	MACRO,V36	19:02	4-JUN-69	PAGE 26		
589 590 591 592 593	000425 000426 000427 000430	201100 265040 260140	000373' 000374' 000375'	JOBKL: JOBKA: IFN FTT	JSP TAC PUSHJ PI IME;<	DP, JOB1	1 G	O SETU	OP ON END P ACS AND ORE AFTER		DEVIÇES	
594 595 596 597				IFE >>	FTLOGIN PUSHJ P PUSHJ	DP,PRTTIM PDP,TTYS		RINT J TART T	UST TOTAL Ty	RUN TIME		
598 599 600 601 602	000430 000431 000432	260140 260140 254000	0000000 0000000 0000000			DP,DEASTY DP,TTYKIL TOP	1 R	ETURN		TTY RGIN STATE WORD AND S	STOP JOB	
603 604 605				JERROR	IN COMMA	ND						
6Ø6 6Ø7	000433	254000	ØØ2Ø15'	CERRI	JRST ER	RMES						
608 609	000434 000435	402003 254000	77777 7 ØØ1231'	JOBKB:	SETZM JRST	-1(PDP) ATT4		LEAR N Not a		COMRET WIL	L PRINT ERROR	MSG.

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DMCON		DECODE	ER AND SA	VEGET ROUTINES - V433 MAC	R0.V36 19:02 4-JUN-69 PAGE 27
61Ø 611 612				; "START L" OR "START" - ST INTERNAL FT2REL EXTERNAL JOBSA	ART AT LOC, L OR STARTING ADDRESS
613				07.07.	
614 615	000436			START:	ISAME AS CSTART, DIFF BY COMTAB BITS
616				1 4	HICH PUT TTY IN MONITOR OR USER MODE
617 618				: "CSTART I " OR "CSTART" -	START AT LOC. L(TTY IN COMMAND MODE)
619					START AT LOUI LITT TH CONTRACT HODE!
62Ø					
621	000436	260140	002073'		ICONVERT POSSIBLE OCTAL NO ARG.
622				IFE FT2REL, <	
623					AT) INO START ADR, SPECIFIED RETURN
624				>	
625				IFN FT2REL, <	
626 627	000431	254000	0004431		ARG SPECIFIED RETURN
628	000440	254000	ØØ2ØØØ'	> JRST COMERA	
629	2.00440	204000	002000	IFN FT2REL .<	JILLEGAL CHARACTER
630				EXTERN CHKMED	
631	000441	260140	000000		ICHECK TO SEE IF HIGH SEG WHICH IS SHARABLE
632				Cond Difference	IF YES, TURN ON USER MODE WRITE PROTECT
633					FOR THIS USER, AND SET MEDDLE BIT SO HE CANNOT
634					J TURN UWP OFF.>
635	000442	254000	0004471	JRST CHKSTR	ISTART JOB WITH PC IN USER MODE,
636					J IF START AND IS NON-ZERD
637				IFN FT2REL.<	
638	000443	334107	000000	SNOARG: SKIPA TAC1, JOBSA(JD)	AT) INO, ARG SPECIFIED, USE START ADR SUPPLIED
639				1 8	Y PROGRAM END STATEMENT AND STORED BY LINKING LOADER
640				1 51	(IP INTO REENTER, START WITH PC IN USER MODE
641				>	

642				I"REENT	ER" -	REENTER USER PROGR	AM
643 644				EXTERNAL	_ JOBF	EN	
645 646 647 648	000444 000445	200107 254000	000000 000447 '	REENTER		TAC1;JOBREN(JDAT) CHKSTR	JGET REENTER ADDRESS FROM JOB DATA AREA JSTART JOB WITH PC IN USER MODE J IF START ADR IS NON-ZERO
649 650				; "DDT"	- STA	RT EXECUTION AT DD	T IN USER AREA
651 652					EXTER	N JOBDDT	
653 654 655	000446	200107	000000	DDTGO:	MOVE	TAC1,JOBDDT(JDAT)	DDT STARTING ADR, IN JOB DATA AREA ; Fall into chstr
656 657				ROUTIN	Е ТО С	CHECK TO SEE IF STA	RTING ADDRESS IS NON-ZERO, AND START USER I
658 659 660	000447	326100	000000			N TAC1, USTART	IS IT NON-ZERO?, IS YES ; STORE OLD PC IN JOBOPC IN JOB DATA AREA
661 662 663	000450 000451 000452	265040 472364 406452	002015' 051650 420202			TACFERRMES I /NO START ADR	; THEN START WITH PC IN USER MODE ;ng, print "no start adr"

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	AKCC 0	3 JUN 69				V36 19:02 4-JUN-69 PAGE 29
665						
666				. "570	P" OR " <control>C"</control>	
667				1504100	P DOUTINED DUDYC	
668				ISTOD A	LA ROUTINES DUMMY OF STO	P WHEN CONTROL C TYPED IN
669				1310P P	UST BE DELAYED IF THIS .	JOB IS SYSTEM TAPE USER
670				ISTODD	TO THE TAPE IS AUTIVE, NT	HERWISE, THE JOB WILL NOT B
671				JOTUPFE	ED WHEN DONE USING THE S'	YSTEM TAPE.
672				TNITCON		
673				EXTERNA	AL FTDISK	
674				EALERNA	AL STUSER, JOB, PJBSTS, IOW	JOBDAC
675	000454	322200	0004621	STOD.		
676	000455	316200	0000000	31061	JUMPE ITEM, STOPB	
677	000456		001577		CAMN ITEM,STUSER JRST CFINS	JIS THIS SYSTEM TAPE USER
678	000400	234600	0010///	IFN FTO		IYES, DO FINISH SYS COMMA
679					11381	
680	000457	260140	ØØ17Ø5'		PUSHJ PDP,STOPCK	
681	000460		001677		JRST DLYCM1	ICAN THE JOB STOP?
682		20.000	0010//	>	JK31 DLICHI	ING. DELAY IT.
683	000461	260140	000000		PUSHJ PDP,STOP1	
684				STOPP:	IFE FTTTYSER,<	ISTOP JOB
685				51018.	JSP TAC, CONMES	
686					ASCIZ /tC	PRINT "+C CRLF CRLF PERIO
687				1	ADDIE FIL	
688				>		
689	000462	263140	000000		TYSER, < POPJ PDP. 0>	
69Ø		2002.0		1	HISERIC FORS FUF, P	
691				I PCONT	CH - CONTINUE EXECUTION	TTY REMAINS IN COMMAND MODE
692				,	O - CONTINUE EXECUTIONS	IT REMAINS IN CUMMAND MODE
693	000463			CONTC:		
694				001101		ISAME AS CONT
695				: "CONT	" - CONTINUE EXECUTION F	PON HUERS LEET OFF
696				FXTERNA	L JBTSTS	RUM WHERE LEFT OFF
697				COLLINA		
698	000463	205100	020000	CONT:	MOVSI TAC1, JERR	
699	000464		000414	001111	TDNN TAC1, JETSTS(ITEM)	116 108 EB808 DIT CETS
700	000465	263140	000000		POPJ PDP,	JCOMMAND DECODER WILL DO R
7ø1	000466	265040	002015		JSP TAC, ERRMES	JYES, PRINT CANT CONTINUE
702					00	FILSE CRINE CANE CONTINUE
703	000467	416031	623650		ASCIZ /CAN'T CONTINUE	
		202071	747250		STOLE FORM & CONTINUE	
	000471		542432			
	000472	050000		/		

705				I "CORE	#" - ASSIGNS ##1024	WORDS OF CORE TO JOB
706				1 "00%E		RINT NO OF FREE BLOCKS LEFT
707				:	WITHOUT AFFECTING CU	IPRENT ASSIGNMENT OF CORE
708					JOB NOT IN MIDDLE OF	SWADDING
709				1	EITHER ON DISK OR CO	
710				•	ETHER ON DISK UK CO	RE UN NEITHER FLAGE
711				FXTERNA	L PCORSZ	
712				LATENNA	LICONSE	
713	000473	260140	0020711	CORF .	PUSHJ PDP, DECIN	CET NO DE AK DIDEKO
714	000474	254000	0005121	CONL.	JRST COR3	IGET NO, OF 1K BLOCKS
715	000475	254000	002000		JRST COMERA	INO ARG, SPECIFIED, JUST TYPE FREE BLOCK LEFT JILLEGAL DECIMAL CHARACTER RETURN
716				IFE FTS		FILLEGAL DECIMAL CHARACIER RETURN
717				1.1.1.1.0	JUMPE TACL.CORØ	IRELEASE DEVICES IS USED ASKING FOR A ANT
718				>		IRELEASE DEVICES IF USER ASKING FOR Ø CORE
719				IFN FTS	WAR	
720	000476	322100	000504		JUMPE TAC1.COR1	LASSICH HIST MINIMAL CODE AND DELEASE DEVICED
721					being therefore	JASSIGN JUST MINIMAL CORE AND RELEASE DEVICES J IF ASKING FOR Ø CORE
722				>		I IF ASKING FOR U CURE
723	000477	242100	000012		LSH TAC1,12	CONVERT 1K BLOCKS TO WORDS
724	000500	201042	777777		MOVEL TAC, -1(TAC1)	
725		260140	ØØØØØØØ		PUSHJ PDP, COREØ	IHIGHEST RELATIVE ADDRESS=LENGTH-1 OF LOW SEG
726		254000	0005071		JRST COR2	JTRY TO ASSIGN CORE
727		263140			POPJ PDP.	JCORE NOT AVAILABLE, GO PRINT MESSAGE
728		200110		IFN FTSI		JOK RETURN, CORE ASSIGNED ON DISK OR MEMORY
729					SKING FOR ØK	
	000504	326340	0003711		JUMPN PROG.CORØ	
731	000505		002221		PUSHJ PDP,GETMIN	IGO RELEASE ALL DEVICES IF HE HAS CORE IN MEMORY
732					COND CONSCIENTS	INO, CORE ON DISK OR HAS NONF, ASSIGN MINIMAL
733	000506	254000	0016761		JRST DLYCM	I AREA(FLUSH HIGH SEG TOO) IN CORE OR DISK
734		2- 000	~D10/0			JAND DELAY COMMAND TILL CORE IS IN MEMORY J DLYCM WILL SWAP IT IN.

736	ØØØ5Ø7			COR2:	IFN FTTTYSER,<	
737	ØØØ507	200303	777776		MOVE DEVDAT,-2(PDP)	RESTORE TTY DDB ADR
738				>		
739	000510	260140	0020251		PUSHJ PDP,INLMES	PRINT ? FOR PATCH
740					ASCIZ /?	
741		374321	200000			
742	000512	260140	002210'			PRINT SIZE OF LOW SEG
743				IFN FT2		
744 745					EXTERN PRTHGH	
	000513	260140	000000		PUSHJ PDP,PRTHGH	PRINT SIZE OF HIGH SEG (+Ø IF NONE)
746 747						I NOTHING IF NOT 2 REG, MACHINE OR SOF
748	000514	049449	0020251	>	PUSHJ PDP, INLMES	
749		260140 274000			ASCIZ "/"	
750	666915	274000	000000		ASULE	
751				IFE FTS		
752				116 6 16	EXTERN CORTAL	
753					MOVE TAC, CORTAL	IND, OF FREE 1K BLOCKS
754				>		INO, OF FREE IN BLUCKS
755				IFN FTS	WAP. <	
756				1	EXTERNAL CORMAX	
757	000516	200040	000000		MOVE TAC, CORMAX	JPRINT MAX, NO, OF BLOCKS IN PHYSICAL
758	000517	242040	777766		LSH TAC,-12	JAVAILABLE TO A SINGLE USER (AS SET
759						; BY BUILD AND/OR ONCE)
76Ø				>		
761	000520	260140	000406'		PUSHJ PDP,RADX10	PRINT NO, OF 1K BLOCKS AVAILABLE
762				IFE FTS		
763					JSP TAC, CONMES	
764					ASCIZ /K CORE	
765				/		
766				>		
767				IFN FTS		
768					EXTERN VIRTAL	
769	ØØØ521		0020251		PUSHJ PDP, INLMES	
770	000522	455010	347644		ASCIZ /K CORE	
771	000523	424321		VIN. CO	RE LEFT=/	
	000524	511344	041636			
	000525 000526	512124 432507	Ø46212 500000			
772	000525 000527	432507 200040	୦୦୦୦୦୦ ୦୦୦୦୦୦୦		MONG THE MIRTH	
773	000530	254000	000000 000520'		MOVE TAC,VIRTAL JRST RADX10	PRINT AMOUNT OF FREE SWAP SAPCE LEFT
774	100000	27000	0000270.	>	JUSI KANYTA	IIN DECIMAL

COMCON	- COMMAI /RCC Ø	ND DECODI 3 JUN 69	ER AND SA	VEGET R	DUTINES	- V433 MACRO,V	'36 19102 4-JUN-69 PAGE 32
775 776 777 778 779				IWORKS	LIKE SAV	M∙EXT [PROJ,PROG] VE, EXCEPT THAT H N-SHARABLE(EXT≃HG	IGH SEG IS SAVED AS SHARABLE (EXTESHE)
780 781 782 783					A SAVE OF	K A GET IN PROCRES	CORE" - SAVES JOB AREA ON RETRIEVABLE DEVICE SS FOR EACH JOB ICE ASSIGNMENTS, AC'S, OR PC
784 785 786	000531 000531	661000	400000	SAVE:IF	N FT2REL TLO IOS		JSET FLAG FOR NON-SHARABLE EXT(HGH)
787 788 789 790 791 792	000533 000534	402004	002314' 001723' 000000 002241'	SSAVE:	PUSHJ P	DP,CTEXT1 BTPRG(ITEM)	ISETUP TO RUN SAVJOB (IOS CLEARED BEFORE IDISPATCH ICLEAR JOB'S PROGRAM NAME FOR RCOM
793				; "GET	DEVICEIF	ILE-NAMEEPROJ., PF	ROG.] CORE" - SETS UP JOB AREA FROM RETREIVABLE
794 795 796				1DEVICE	AND ASS	IGNS CORE.	i
797 798 799 800 801	000537 000540	260140 402004	002406 001723 000534 000630		PUSHJ P	DP,CTEXT1 JBTPRG(ITEM) NCM	JSETUP TO RUN GETJOB JGET DEVICE NAME JCLEAR NAME FOR RCOM J JOB DATA AREA FOR MONITOR JOB
802 803 804				IFN FTL	OGIN,<		N AFTER DSK REFRESH OR WHEN REFLAG SET
805 806				EXTERNA		REFLAG	
807 878 809	ØØØ542 ØØØ543 ØØØ544	205040 436044	000000 000004 000464 '	LOGREF:	MOVSI Iorm	TAC,PRJPRG(ITEM) TAC,JLOG TAC,JBTSTS(ITEM)	the solution that is a districted
810 811 812 813	000545 000546 000547	402070	77777 000000 000000 000000	>	SETZM SETZM Popj	-1(PDP) PEFLAG PDP,	ICLEAR ALL FLAGS FOR COMRET IONLY ONCE

COMCON		ID DECODE 5 JUN 69	ER AND SA	VEGET RO	UTINES	- V433 MACRO.V	36 19:02	4-JUN-69 PAGE 33	
814				I"HELP"	-HELP (COMMAND			
815 816						• • •			
817				INTERNA	L FTLOG	I N			
818				IFN FTL	OGIN,<	EXTERNAL HELPPE	•		
819	000550			HELP11					
820	000550	200040	000000			AC,HELPPP			
821 822	000551 000552	607500 254000	000004		TLNN T				
823	000552	263140	000562' 000000		JRST Popj	ALOGIN PDP.			
824		200110		>	- 01 0	FUT J			
825									
826	000554			HELP:	IFN FTU	.OGIN,<			
827	000554	260140	000550'		PUSHJ	PDP,HELP1			
828				>					
829 83Ø	000555 000556	200040 254000	003054' 000621'		MOVE JRST	TAC, ESIXBIT /HE		ICUSP NAME	
831	000550	234000	000021.		JESI	ARCOM IRUN IT			
832	000557			SYSTAT:	IFN FTL	OGINIK			
833	000557	260140	000550'		PUSHJ	PDP, HELP1			
834			_	>		-			
835	000560	200040	003055'		MOVE	TAC, [SIXBIT /SY		ICUSP NAME	
836 837	000561	254070	000621'		JRST	ARCOM IRUN IT			
-838									
839				EXTERNAL	L JBTSTS	5. TTYATT			
84Ø									
841	000562			ALOGINI					
842					L FTLOGI				
843 844	000562	202044	0005421	IFN FTLI		EXTERNAL PRJPRG			
845	000563	202044	0000042			AC;PRJPRG(ITEM) AC;JLOG			
846	000564	412044	000544			TAC, JBTSTS(ITEM)			
847				>					
848						'ERNAL TTYATT			
849	000565	260140	ସ୍ତ୍ରତ୍ତ୍ର	ALOGN1:	PUSHJ P	DP, TTYATT		RE TTY IS ATTACHED IN CASE	
85Ø 851								OMMAND MUST BE DELAYED	
852	000566	255000	000000		JFCL		J BECAUS	E NO CORE YET.	
853				>					

CUMCON	- COMMAN	JUN 69	ER AND SA	VEGET RO	UTINES -	V433 MACRO,V	36 19102 4-JUN-69 PAGE 34
855				INTERN	FŤCCL		
856 857				IFN FTC	CL.<		
858 859							
86Ø	000570 000571	200040 254000	003056' 000621'	CCLRUNI	MOVE JRST	ARCOM JRUN IT	
861 862				>			
863 864					" - LOGI	N COMMAND	
865					L FTLOGI	N	
866 867				IFN FTL	OGIN,<		
868				EXTERNA	L SYSPP		
869 87Ø	000572	265040	0020151	LOGDETI	JSP	TAC, ERRMES	
871	000573 000574	502310	540646		ASCIZ	/PLEASE KJOB OR	DETACH
	000575	425Ø11 411Ø11	345236 751100				
	000576	422132	440606				
872	000577	440321	200000	1			
873 874	ØØØ6ØØ ØØØ6Ø1	603500 254000	000004 000572 •	CLOGIN;	TLNE JRST	T, JLÓG	FORCE USER TO LOGOUT BEFORE
875	000001	224000	000072	IFN FTSI		LOGDET	J LOGGING IN ANEW.
876 877						VIRTAL,LOGSIZ	
878	ØØØ6Ø2 ØØØ6Ø3	200040 301040	000527' 000000			C,VIRTAL C,LOGSIZ	JAMOUNT OF FREE VIRTUAL CORE LEFT
879			000000		CALL IN	UILUG312	JIS THERE AT LEAST 2K FOR LOGIN? J CUSTOMER CAN REDEFINE TO BE BIGGER THAN 2
880							WITH MONGEN DIALOG
881	000604	254000	ØØØ6Ø7'		JRST CL		IYES,
882 883	ØØØ6Ø5 ØØØ6Ø6	201200	000000		MOVEL		IND, SET JOB NUMBER TO Ø FOR COMMAND DECODE
884	000000	254000	000507'	>	JRST CO	42	JAND GO TELL USER AMOUNT OF CORE LEFT
885	000607	332040	000546'	-	SKIPE	TAC, REFLAG	JREFLAG SET NON-ZERO FOR AUTOMATIC LOGIN?
886	000610	254000	0005421		JRST	LOGREF	JYES, LOG USER IN WITHOUT RUNNING CUSP
887		_	_		-		SO HE CAN RELOAD THE DISK AFTER REFRESH
888	000611	200040	000000		MOVE TAG		ISET PRJPRG TO SYSPP
889	000612	260140	0005621			DP, ALOGIN	JAUTOMATIC LOGIN
89Ø	000613 000614	2Ø5Ø4Ø 436Ø44	100000 000564'		MOVSI	TAC, JACCT	IFLAG LOGIN OR LOGOUT RUNNING AND
					IORM	TAC, JBTSTS(ITEM	
891 892	000615	200040	0030571		MOVE	TAC. ESTVOIT // A/	
892 893	000615 000616	200040 254000	003057' 000621'		MOVE JRST	TAC, ESIXBIT /LOG ARCOM JRUN IT	GIN/J JCUSP NAME

.

OMCON		DECODE	ER AND SA	VEGET ROUTINES - V433 MACRO,V36 19:02 4-JUN-69 PAGE 35
895 896				; "R CUSPNAME CORE" - DOES "RUN SYS:CUSPNAME"
897	000617	201040	000000	RCOM: MOVEI TAC,0 ;NO FILE NAME, TTY WILL SUPPLY IT
898	000620	254000	0006221	JRST ARCOM1
899				
900	000621	260140	000222'	ARCOM: IFN FTTTYSER,< PUSHJ PDP,SKPBRK>
901	000622	202044	000540	ARCOM1: MOVEM TAC, JBTPRG(ITEM) /STORE FILE NAME
902	000623	205100	637163	MOVSI TAC1, (SIXBIT /SYS/) JREAD FROM SYS DEVICE
903	000624	254000	0006271	
904				; "RUN DEVICE;FILECPROJ,,PROG,] (CORE)"
905				IDGES A CORE, GET, START ALL IN ONF
906				IF CORE ARG IS MISSING, SIZE IN DIRECTORY IS USED
9Ø7				JOB ON DISK OR IN CORE OR NO CORE, BUT NOT IN MIDDLE OF SWAP
908				
909				EXTERNAL JOBDA
910				
911	000625	260140	0017231	RUNCOM: PUSHJ PDP, CTEXT1 JGET DEVICE NAME FROM COMMAND STRING
912	000626	402004	000622'	SETZM JBTPRG(ITEM) ICLEAR FILE NAME
913	ØØØ627	201000		RUNCO2:RUNC1: MOVET TOS.RUNJOB
914	000630	260140	002221	RUNCM: PUSHJ PDP, GETMIN IGET MINIMAL JOB AREA IN CORE OR DISK
915	000631	326340	002241'	JUMPN PROG.SGSET IWAS CORE ASSIGNED IN MEMORY? IF YES, GO SCANARGS
916				IFE FTSWAP,<
917				JRST COR? JNO, PRINT "ØK CORE LEFT"
918				
919				IFN FTSWAP.
92Ø	000632	254000	ØØ1676'	JRST DLYCM JNO, DELAY COMMAND UNTIL IN CORE
921				>

922				; "ASSI	GN DEVIN	AME" - ASSIGN DE	VICE TO JOB AND GIVE IT LOGICAL NAME
923 924				EXTERNAL	DEVLST	, PJOBN, SYSTAP	
925							
926	000633	260140	0017231	ASSIGN:	PUSHJ P	DP, CTEXT1	JGET FIRST ARGUMENT
927	000634	322100	002034		JUMPE T	AC1, NOTENF	IND ARGUMENT TYPED IF Ø
928	000000			IFN FTL	DGIN, <ex< td=""><td>TERN PRJPRG</td><td></td></ex<>	TERN PRJPRG	
929	000635	312100	003060'		CAME	TAC1, CSIXBIT , SY	(5,]
930	000636	254000	000642'		JRST	ASSG6	
931	000637	554544	000562'		HLRZ	T1, PRJPRG(ITEM)	
932		306540	000001		CAIN	T1,1	PROJECT NR. 1?
933	000641	254000	000701'		JRST	ASSG7	IYES
934	000642			ASSG61			
935				>			
936	000642	200540	000002		MOVE T1	. TAC1	SAVE DEVICE NAME
937				IFN FTT	TYSER,<		
938	000643	26114Ø	000006		PUSH	POP,DEVDAT	ISAVE TTY DDB
939				>			
940				IFE FTT	TYSER,<		
941					PUSH PD	P, TAC	SAVE INPUT BYTE POINTER
942				>			
943	000644	200040	000002		MOVE	TAC, TAC1	
944	000645		000000		PUSHJ	PDP, DEVPHY	
945	000646	254000	000651'		JRST	ASSG3	
946	000647	201100	400000		MOVEI	TAC1,ASSCON	
947	000650	254000	000656'		JRST	ASSG4	· · · · · · · · · · · · · · · · · · ·
948	000651	201100	400000	ASSG3:	MOVEI	TAC1,ASSCON	ISETUP ASSIGNED BY CONSOLE BIT
949	000652	554300	ØØØØØØ			EVDAT, DEVLST	
95Ø	000653	200046	000000	ASSGØI		C, DEVNAM (DEVDAT)	
951	000654	312546	000000			,DEVNAM(DEVDAT)	IDOES PHYSICAL NAME MATCH?
952		254000	000665'		JRST AS		IND
953		316540	003061'	ASSG4:	CAMN T1		IS THIS A DISC? (IF YES,
954	000657	254000	ØØØ662'		JRST	ASSG5	IBYPASS CHECK FOR SYSTEM TAPE AND ASSIGN BELOW
955	000660	316040	000000		CAMN TA	AC, SYSTAP	IS NEXT DEVICE IN LIST THE SYSTEM TAPE?
956	000661	254000	0007231		JRST AS		IYES, DO NOT ASSIGN. CLEAR DIRECTORY IN CORE E
957			000000	ASSG5:		PDP,ASSASG	IND, TRY TO ASSIGN DEVICE
958	000663		000707'		JRST AS		ALREADY ASSIGNED TO ANOTHER JOB
959			0007231		JRST AS	SCIN	IASSIGNED

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	/RCC Ø	3 JUN 69			our ingo	- V433 MACR	D,V36 19102 4-JUN-69 PAGE 37
040							
960 961				ISYSTE	Η ΤΑΡΕ Ο	R NOT MATCH OF	ARG AND PHYSICAL NAME.
962	000665	316040	8994494				· · ·
963	000666	254000	000660' 000675'	A5561:		AC, SYSTAP	IIS THIS SYSTEM TAPE?
964	000667	135500	000215		JRST A		IYES
965	000670	620040	777777		LDB T.		ISAVE OLD JOB NUMBER FOR THIS DEVICE
966	000671	316040	000013		TRZ TA		JCOMAPRE LEFT HALF ONLY
967	000672	260140	0006621		CAMN T		
968	000673	254000	000675			PDP: ASSASG	IMATCH, TRY TO ASSIGN IT
969	000674	322500	000723		JRST A	T,ASSFIN	IKEEP LOOKING
970		021909	200720		JUMPE	I ASSF IN	IF OLD JOB NUMBER Ø, DEVICE PREVIOSLY UNASSI
971	000675	554306	000003	ASSG21			
972	000676	326300	0006531	A03021		EVDAT, DEVSER(DEVDAT, ASSGØ	LVDAT)
973		01-000		TEN ETT	TYSER, <	JEVUAL, ASSGO	
974	000677	262140	000006		POP	PDP, DEVDAT	
975				>		TO TOLVONT	IRESTORE TTY DDB
976				IFE FTT	TYSER, <		
977					POP PDF	. TAC	
978				>			
97 9	000700	254000	000770'		JRST NO	THEV	PRINT NO SUCH DEVICE
980							
981	-			IFN FTL	OGIN, <e></e>	TERN STREQ, SYS	TAP
982	000701	260140		ASSG7:	PUSHJ	PDP, CTEXT1	
983	000702	322100	0020341		JUMPE	TAC1, NOTENF	
984	000703	331000	000000		SKIPL	STREQ	
985	000704	254020			JRST	DLYCM1	
986	000705	202100			MOVEM	TAC1, SYSTAP	
987 988	ØØØ7Ø6	26314Ø	000000		POPJ	PDP,	

		JUN 69			OUTINES	- V433 MACRO	0,V36 19102 4-JUN	1-69 PAGE 38
989				JALREA	DY ASSIG	NED TO ANOTHER	JÓB	
998	000707			ASSER1	1		* - -	
991				IFE FT	TTYSER,<			
992					POP PDI			
993						TAC, ASSMS2		
994 995						PDP, ERRMES		
995						C, PJOBN		
997	,				JRST DI	ECLF	IPRINT JOB NUM	BER CRLF
998				>				-
999				IFN FT1	TYSER, <			
1000	000707	135040	000667		LDB	TAC, PJOBN	JGET JOB NUMBE	R FOR DEVIC
1000	000710	262140	000006		POP	PDP, DEVDAT	JGET DDB FOR T	
1001	000711	261140	000001		PUSH	PDP, TAC ISAVE	JOB NO.	
1002	000712	201040	000716		MOVEI	TAC, ASSMS2	ITYPE ERROR ME	SSAGE
1003	000713	260140	002015		PUSHJ	PDP, ERRMES		
1004	000714	262140	000001		POP		JOB NO. BACK	
1005	000715	254000	000406'		JRST	DECLF	JAND TYPE IT	
1007				>				
100/								
1008	000716	406312	242602					
	000717	422624	040646	AJOHOCI	ASULE /	ALREADY ASSIGN	ED TO JOB /	
	000720	516230	747212					
	000721	421012	447500					
	000722	452370	220000					

1009 1010						
1010				DEVIC	ASSIGNED, GIVE IT A LOG	
	000723	402006	000005	ASSEIN	SETZM DEVLOG(DEVDAT)	JCLEAR LOGICAL NAME
1011					TTYSER, <	JULEAR LUGICAL NAME
1012					POP PDP, TAC	
1013					PUSH POP, DEVDAT	RESTORE INPUT BYTE POINTER
1014				>	FUSH FUF, DEVUAT	ISAVE DDB ADDRESS
1015					TYSER, <	
1016	000724	250303	000000	11 10 11 1		
1017		20000		>	EXCH DEVDAT,Ø(PDP)	IGET TTYDDB, SAVE DEVICE DDB
	000725	260140	001723			
	000726	332040			PUSHJ PDP, CTEXT1	IGET SECOND ARG, LOGICAL DEVICE NAME
	000727	260140			SKIPE TAC, TAC1	IIS THERE A LOGICAL NAME SPECIFIED?
1021	000121	200140	000000		PUSHJ PDP, DEVLG	IYES, SEE IF IT IS ALREADY IN USE
	000730	DE4688				I BY THIS USER
	000731	254000			JRST ASSF1	IND
		201040			MOVEI TAC.LOGERR	IYES, PRINT ERROR
	000732	200303			MOVE DEVDAT,-3(PDP)	IRESTORE TTY DDB
	000733	260140	002015		PUSHJ PDP, ERRMES	
	000734	201040				ICLEAR LOGICAL NAME FOR THIS DEVICE
	000735	26214Ø	000006	ASSF1:	POP PDP, DEVDAT	FOR HIS DEVICE
	000736	202046	000005		MOVEM TAC, DEVLOGIOEVDAT	ISTORE IN DEVICE DATA BLOCK
	000737	205100	400000		MOVSI TACI, DVDIRIN	JCLEAR DIRECTORY IN CORE BIT
1030					ANDCAR TACL DEVMOD (DEVDA	JOLEAN DIRECTORY IN CORE BIT
	000740	413106	000004	HGH		SETUP TAC1 WITH DEVICE CHARACTERISTICS FOR
1032				IFN FT2	RFL . C	
1033					EXTERN ASGHGH	
1034						
	200741	260140	000000	MENTS	Cond Corradingh	IGO CHECK IF THIS DEVICE HAS INITIALIZED ANY SHARED
1036						
1037				LY)		IF YES, CLEAR SEG NAMES SO NO NEW SHARING (DTA, MT)
1038				5		
1039 (000742	200106	000000		MOVE TAC1, DEVNAM(DEVDAT)	
	000743	200303	777776		MOVE DEVDAT2(PDP)	JPHYSICAL NAME
	000744	260140	ØØØØØØ			
	000745	265040	002017		PUSHJ PDP, PRNAME	PRINT IT
1043					JSP TAC, CONMES	
	000746	202032	351622		10017 /	
	000747	436350	542032		ASCIZ / ASSIGNED	
	000750	050000	000000 000000			
1046		020000	000000	/		
	000751	462370	744686			
	000752	402370	047202	LUGERKI	ASCIZ /LOGICAL NAME ALRE.	ADY IN USE, /
	00753	466124	041202			
	000753 000754		040630			
		_	142262			
		202231 516125	620252			

		JUN 69				
1048						
1049				;"DEASS	IGN DEV" - DEASSIGNS DEV	ICE FROM CONSOLE
1050						
1051				INTERNA	L NOTDEV	
1052						
1053	000757	322200		DEASSII		INO-OP IF NO JOB NUMBER
1054	ØØØ76Ø	260140	001723			JGET DEVICE NAME
1055	000761	322100	002060'			INO ARG, IF Ø, DEASSIGN ALL BUT TTY
1056	000762	200040	000002		MOVE TAC, TAC1	DEVICE NAME
1057	000763	260140	000000		PUSHJ PDP, DEVSRC	ISEARCH FOR DEVICE
1058	000764	254000				INOT FOUND
1059	000765	260140				IFOUND, DEASSIGN IT
1060	ØØØ766	254000				INOT PREVIOUSLY ASSIGNED
1061	000767	26314Ø	ØØØØØØ		POPJ PDP,	IDEVICE DEASSIGNED
1Ø62						
1063	000770			NOTDEV:		
1064	000770		777776		MOVE DEVDAT,=2(PDP)	
1065	000771	265040	0020151		JSP TAC, ERRMES	PRINT NO SUCH DEVICE
1066						
1067	000772	472364	Ø51652		ASCIZ /NO SUCH DEVICE	
	000773	416204	Ø42212			
	000774	53223Ø	342432			
1068	000775	050000	ØØØØØØ	1		
1069						
1070	000776	200106	000000	DEAER2:	MOVE TAC1, DEVNAM (DEVDAT)) JPRINT PHYSICAL DEVICE NAME
1071	000777	200303	777776		MOVE DEVDAT,-2(PDP)	IRESTORE TTY DDB
1072	001000	260140	000744'		PUSHJ PDP PRNAME	
1073	001001	265040	ØØ2Ø15'		JSP TAC, ERRMES	
1074						
1075	001002	202570	151634		ASCIZ / WASN'T ASSIGNED	
	001003	236504	040646			
	001004	51623Ø	747212			
1076	001005	420321	200000	/		

COMCON	- COMMA /RCC P	ND DECOD 13 JUN 69	ER AND S	AVEGET ROUTINES - V433 M	ACR0.V36 19:02 4-JUN-69 PAGE 41
1077				INTERNAL FTREASSIGN	
1078				IFE FTREASSIGN, <	
1079				REASSI = UUDERR	
1080				>	
1081					
1Ø82 1Ø83				IFN FTREASSIGN,<	
1083					
1085				FREASSIGN UUD	
1086				ICALL MOVE AC. JOB NUMBER	۹
1087				MOVE AC+1, SIXBIT	/DEVICE/
1088				CALL AC, ESIXBIT /F	REASSIGN/J
1089				IF C(AC)=0, JOB HAS NOT E	BEEN INITIALIZED
1090				IF CLAC+1)=0, DEVICE NOT	ASSIGNED TO THIS JOB OR DEVICE IS A TTY
1091				INTERNAL REASSIGN	
1092				EXTERNAL PUUDAC, JOB	
1093				LINE TOUGAUJUB	
1094	001006	135600	000000	REASSI: LDB UUO,PUUOAC	
1095	001007			HRLI UUO, PROG	
1096	001010		000014	PUSH PDP, QUUO	ISTACK IOD NUMBER TO BE SEVEN
1097 1098	001011	350000	200014	ADS UUD	ISTACK JOB NUMBER TO BE REASSIGNED TO
1098	001012			MOVE TAC1, OUUO	DEVICE NAME
1100	001013 001014			MOVE ITEM, JOB	ITHIS JOB NUMBER
1101	001014	364600	001026	SOJA UUO, REASS1	COLD COS COMBER
1102					
1103				;"REASSIGN DEV:JOB" - REAS	SIGN DEVICE "DEV" TO JOB "JOB"
1104					
1105	001015			REASS:	
1106	001015	260140	001723.		
1107	001016	322100		PUSHJ PDP,CTEXT1 JUMPE TAC1,NOTENF	IGET DEVICE NAME
1108	001017	200600	000002	MOVE UUD, TACI	INULL NAME?
1109	001020	260140	002071'	PUSHJ PDP, DECIN1	ISAVE IT IN UUD
1110		254000	002034	JRST NOTENF	IGET NEW JOB NUMBER
1111	001022	254000	602000'	JRST COMERA	INONE SPECIFIED, DOESN'T RETURN IF ER
1112	001023		000002	PUSH PDP, TAC1	INCLUAL UNAKAUTER
1113		200100	000014	MOVE TAC1, UUO	IPUT JOB NUMBER ON STACK, DEVICE
1114	001025	402000	000014	SETZM UUD	SET COMMAND SWITCH

1115						
1116 1117				ROUTIN	VE COMMON TO REASSIGN UND	AND COMMAND
1118				EXTERN	L JBTSTS, PJOBN, JOBFDV	
1119					C OBISISIADOBNIJUBESV	
1120		250203		REASS1:	EXCH ITEM, (PDP)	INEW JOB NO, IN ITEM
1121 1122	001027		000000		CAILE ITEM, JOBN	IS JOB NUMBER OUT OF RANG
1123	001030	254000	001115		JRST REASE2	IYES, DO NOT REASSIGN
1123	ØØ1Ø31 ØØ1Ø32	200044	000614'		MOVE TAC, JBTSTS(ITEM)	INEW JOB STATUS
1125		250203 607040	000000		EXCH ITEM, (PDP) TLNN TAC, JNA	RESTORE ITEM AND STACK
1126		254000	040000		TLNN TAC, JNA	IDDES NEW JOB EXIST?
1127		200040	001111' 000002		JRST REASE1 MOVE TAC, TAC1	INO.
1128		260140	0000002 000763'		MOVE TAC, TAC1	
1129		254000	ØØ1115		PUSHJ PDP, DEVSRC	ISEARCH FOR DEV
1130		135040	000707		JRST REASE2 LDB TAC,PJOBN	INOT FOUND
1131		312040	000004		CAME TAC, ITEM	
1132	001042	254000	001121		JRST REASE3	LASSIGNED TO THIS JOB
1133	001043	200046	000004		MOVE TAC, DEVMOD (DEVDAT)	INO
1134 1135	001044	603040	000010		TLNE TAC,DVTTY JRST REASE6 TRNN TAC,ASSPRG JRST REASS3	JIS IT A TTY?
1136	001045 001046	254000	001123'		JRST REASE6	IYES, CAN'T BE REASSIGNED.
1137	001040	606040 254000	200000		TRNN TAC, ASSPRG	IIS DEVICE INITED?
1138	001050	326670	001102' 001066'		JRST REASS3	JNO,
1139		504303	0000000		JUMPN JUD.REASSA	IVES COMMAND LEVELS
1140	001052	202307	0000000		HRL DEVDAT, (PDP)	IYES. SCHEDULE RELEASE
1141		26214Ø	000002		MOVEM DEVDAT, JOBEDV (JDA1	r)
142	001054	200303	777776		POP PDP, TAC1	
143	001055	205100	000020		MOVE DEVDAT, -2(PDP)	
144	001056	436103	777777		IORM TAC1, -1(PDP)	SET TTYRNC SO JOB WILL RUN
145	001057	265100	000000		JSP TAC1, MSTART	
146	001060	265040	000426		JSP TAC, MONSTR	
147		554047	001052		HLRZ TAC, JOBFDV(JDAT)	
148		261140	000001		PUSH PDP, TAC	
149		550307	001061'		HRRZ DEVDAT, JOBEDV (JDAT)	
150	001064	200200	0010131		MOVE ITEM, IOP	
151			000014		SETOM UUD	ISET FLAG TO STOP HOP
152		550446	000003	REASS4:	HRRZ USER/DEVSER(DEVDAT)	
153		552307	001063		HRRZM DEVDAT, JOBFDV (JDAT	>
154	001070	200500	000000		MOVE UCHN, USRHCU	•

	/RCC Ø3	-				
1155	001071	200312	000000	REASS2:	MOVE DEVDAT, USRJDA (UCHN)	JGET XWD UUO BITS,ODB ADD
1156	001072	550047	001067'			JGET ADDR, OF DDB SAVED BY COMMAN
1157		261140	000012			SAVE USER CHANNEL
1158	001074	306046	000000		CAIN TAC, (DEVDAT)	JIS CHOSEN DEVICE ON THHS CHANNEL
1159	001075	260140	000000		CAIN TAC, (DEVDAT) PUSHJ PDP, RELEAS	IYES, RELEASE DEVICE
1160	001076	262140	000012		POP PDP.UCHN	
1161	001077	365500	001071'		SOJGE UCHN:REASS2	
1162		200307	0010721		MOVE DEVDAT, JOBFOV (JDAT)	
1163	001101	200200	001064'		MOVE ITEM, JOB	ICURRENT JOB NUMBER
1164		201040	400000	REASS3:	MOVEL TAC, ASSCON	JASSIGN IT BY CONSOLE
1165		436046	000004		IORM TAC, DEVMOD(DEVDAT)	
1166	001104	250203	000000		EXCH ITEM, (PDP)	
1167		137200	001040		DPB ITEM, PJOBN	JPUT IN NEW JOB NUMBER
1168	001106	262140	000004		POP PDP, ITEM	
1169		321600	0004251		JUMPL UUD, ESTOP	
1170		263140	000000		POPJ PDP,	
1171						
1172	001111	262140	000001	REASE1:	POP PDP, TAC	
1173	001112	322600	ØØ1231'		JUMPE UUO,ATT4	JOB NEVER WAS INITIATED
1174	001113	402020	000014	REASE4:	SETZM QUUD	JCLEAR C(AC)
1175		263140	000000		POPJ PDP,	
1176		-				
1177	001115	201040	000770'	REASE2:	MOVEL TAC, NOTDEV	IND SUCH DEVICE
1178	001116	262140	000002	REASE5:	POP PDP, TAC1	
1179	001117	322691	000000		JUMPE UUO;(TAC)	
118Ø	001120	344690	001113'		AOJA UUO,REASE4	
1181						
1182	001121	201040	000776'	REASE3:	MOVEI TAC, DEAER2	JWASN'T ASSIGNED
1183	001122	254000	001116'		JRST REASE5	
1184						
1185	001123	201040	ØØ1125'	REASE6:	MOVEI TAC, REASE7	
1186	901124	254000	ØØ1116'		JRST REASE5	
1187		200176	000000	REASE7:	MOVE TAC1, DEVNAM (DEVDAT)	
1188	001126	200373	777776		MOVE DEVDAT, -2(PDP)	RESTORE TTY DDB
1189	001127	260140	001020'		PUSHJ PDP, PRNAME	
1190		265040	002015		JSP TAC, ERRMES	
1191	ØØ1131	202870	147116		ASCI7 / CAN'T BE REASSIG	INED
	001132	521010	242520			
		512130	151646			
	001134	446171	642610			
1192	ØØ1135	C64240	000000	1		
1193				>		

1194 1195 1196					L FTATTACH TTACH,<	
1197						
1198				I ATTAC	NOTE-MUST BE DOCCED IN	PREVIOUSLY PARTITIONED DEVICE N UNDER [1,1] TO DO THIS
1199				I "ATTA	CH N [PROJ. PROG. 1" - A	NTTACH CONSOLE TO JOB N
1200				CHANGE	S ADDRESS OF TTY DEVICE	DATA BLOCK STORED IN -2(PDP)
1201				JBY THE	COMMAND DECODER	
1202 1203 1204					L ATTACH L TTYATT,JOBN,TTYFND	
1205						
1206				ATTACH:	IFE FTTTYSER,<	
1207 1208	001176	0/0/00			MOVE AC2, TAC	JSAVE BYTE POINTER>
1200	ØØ1136 ØØ1137		002071' 002034'		PUSHJ PDP, DECIN	IGET JOB NO,
1210		227080	002034	IFN	JRST NOTENF FTLOGIN; <	INOT A NUMBER OR NONE SPECIFIEED
1211	001140	254000	001164'	1, 1,	JRST DEVATT	IWANTS TO ATTACH A DEVICE
1212				>		SHARTO TO STINCH A DEVICE
1213				IFE	FTLOGIN, <	
1214					JRST ATT1	
1215				>		
	001141		000002		SKIPE TAC1	10 IS ILLEGAL
1217 1218	001142		001027		CAIL TAC1. JOBN	IIS JOB NUMBER TOO BIG?
1210	001143	254000 205540	001276' 040020		JRST ATT1	JILLEGAL JOB NUMBER
	001145		001031		MOVSI T1,JNA TDNN T1,JBTSTS(TAC1)	IHAS THIS JOB NO BEEN ASSIGNED?
1221	001146		001231		JRST ATT4	
1222				INTERNAL	FTLOGIN	ING, PRINT ERROR
1223				IFN FTLC	GIN,<	
1224	001147		000002		MOVE IOS, TAC1	ISAVE JOB NO.
1225 1226	001150	260140	ØØ2117'		PUSHJ PDP,PJPGNO	IGET PROJ, -PROG, NOS, ARG(IF ERROR, POP SUB LEVEL
1227						I OFF 1, PRINT ERROR, AND DO NOT RET AN LERES
1228	001151	202000	000002		MOVEM IOS, TAC1	
1229		336000	000016		SKIPN AC2	IRESTORE
1230	001153	200704	0006371		MOVE AC2, PRJPRG(ITEM)	IDID USER TYPE IN A PROG.PROG # IN []'S? INC. ASSUME PROJ.PROG NUMBER FOR CURRENT JOB
1231						I SO USER CAN AVOID TYPEING PROUPROG NO. IF SOING
1232 1233						J FROM 1 JUB TO ANOTHER UNDER SAME PRO LORAD
1234	001154	312722	0011571	0502	CAME AC2, PRJPRG(TAC1)	IIS THIS THE SAME PERSON WHO DETACHED FROM THIS JOB
1235		254070	001153 001224 !		DOT ATT7	
1236			OPTERA		JRST ATT3	INO-ERROR
1237				>		J YES
1238	001156		ØØØØØ2		MOVE ITEM, TAC1 : JOB NU	JMBER TO ITEM
1239	001157	260140	000565		PUSHJ PDP,TTYATT	INC, ATTACH TTY
1240 1241	001160		001214		JRST ATT2	JERROR CAN'T ATTACH
1242	701161	202303	777776		MOVEM DEVDAT, -2 (PDP)	ICHANGE DEV DATA BLOCK ADDRESS
1243				IFN FTTT		
1244	001162	260140	000000		EXTERN ISETBF PUSHJ PDP,ISETBF	
1245				>	Condition Privation	SINITIALIZE TTY INPUT RUFFER
1246		254000				

1247					
1248				INTERNAL FTLOGIN	
1249				IFN FTLOGIN,<	
1250				DEVATT: IFE FTTTYSER,<	
1251					IRESTORE BYTE POINTER>
1252	001164	260140	001723	PUSHJ PDP,CTEXT1	JGET DEVICE ARGUMENT
1253	001165	255000	000000		ISHOULD NEVER RETURN
1254	ØØ1166	200504	001154		JGET PROJ, PROG, NOS.
1255	001167	312500	000611'	CAME T, SYSPP	;PRJPRG = [1,1]?
1256	ØØ117Ø	254000	ØØ1235'	JRST ATT5	INO - ERROR
1257	001171	200040	000002	MOVE TAC, TAC1	JYES-SET UP DEVICE NAME
1258	001172	26114Ø	000006	PUSH PDP,DEVDAT	ISAVE DDB FOR THIS TTY
1259	001173	260140	001036'	PUSHJ PDP,DEVSRC	ISEARCH FOR DEVICE
1260	001174	254000	001302'	JRST TEMP1	INOT FOUND
1261	001175	135500	001105'	LDB T,PJOBN	IGET JOB NUMBER
1262	001176	326500	001242'	JUMPN T,ATT6	115 IT = Ø?
1263	001177	137200	001175'	DPB ITEM, PJOBN	ISET JOB NUMBER
1264	001200	200046	000004		CHECK TO SEE IF THIS IS A TTY
1265	001201	135100	000153'	LDB TAC1, PUNIT	1
1266	001202	603040	000010	TLNE TAC, DVTTY	JIS IT A TTY?
1267	001203	542302	000154'	HRRM DEVDAT, TTYTAB(TAC1)	
1268	001204	262140	000006	POP PDP, DEVDAT	1
1269	001205	263140	000000	POPJ POP,	RETURN
1270				>	

COMCON	- COMMAN /RCC Ø3	JUN 69	ER AND SA	VEGET R	OUTINES - V433 MACRO,V36 19:02 4-JUN-69 PAGE 46	
1271						
1272	001206	265040	002015'	ATT1:	JSP TAC, ERRMES	
1273	ØØ12Ø7	446311	442616		ASCIZ /ILLEGAL JOB NUMBER	
	001210	406304	Ø45236			
	001211	411011	652632			
1274		412132		/		
1275	001213	000000	000000			
1276	001214	200106	000000	ATT2:	MOVE TAC1, DEVNAM(DEVDAT) JPRINT PHYSICAL NAME	
1277	001215	200303	777776	A	MOVE TAC1,DEVNAM(DEVDAT) ;PRINT PHYSICAL NAME MOVE DEVDAT,=2(PDP) ;RESTORE TTY DDB	
1278	001216	260140	0011271		PUSHJ PDP, PRNAME	
1279	001217	265040	002015		JSP TAC, ERRMES	
1280	001220	202031	451212		ASCIZ / ALREADY ATTACHED	
	001221	406113	120202			
1281	ØØ1222 ØØ1223	52251Ø 4261Ø1	141620 505000			
1282	001223	420101	000000	/		
1283	001224	265040	0020151	ATT3:	JSP TAC, ERRMES	
1284	001225	416031	623650		ASCIZ /CAN'T ATT TO JOB	
			454.44			
	ØØ1226 ØØ1227	2Ø2Ø32 522364	452100 045236			
1285	001230	410321		/		
1286	001200	110021		'		
1287	001231	265040	ØØ2Ø15'	ATT4:	JSP TAC, ERRMES	
1288	001232	472372	420202		ASCIZ /NOT A JOB	
	001233	202251	741Ø32			
1289	001234	050000	000000	/		
129Ø 1291						
1292	001235	265040	002015'		JSP TAC, ERRMES	
1293		416031	623650	41121	ASCIZ /CAN'T ATT DEV	
	001237	202032	452100		ROOIS YORM ALL DEV	
1294	001240	422132		1		
	001241	000000	000000			
1295						
1296	001242	262140	000006		POP PDP.DEVDAT	
1297 1298	001243 001244	265040	002015		JSP TAC, ERRMES	
1270	001244 001245	536Ø32 521Ø1Ø	347116 44265Ø		ASCIZ /WASNIT DET	
1299	001246	064240		1		
1300		00 · L + D		Ś		

1301				INTERNAL FTATTACH	
1302				IFN FTATTACH,<	
13ø3					
1304				J"DETACH" - DETACH CONSOLE FROM	JOB
1305				J"DETACH DEVNAM" - DETACHES DEV	ICE FROM THE SYSTEM SOFTWAREWISE
1306				NOTE - MUST BE LOGGED I	N UNDER [1,1] TO DO THIS
1307					
1308				EXTERNAL TTYDET	
1309				INTERNAL FTLOGIN	
1310					
1311				IFE FTLOGIN, <	· · · · · · · · · · · · · · · · · · ·
$1312 \\ 1313$				DETACH: JRST TTYDET	IGO DETACH TTY
1313				>	
1314				IFN FTLOGIN.<	
1316				EXTERNAL PRJPRG,SYSPP,PUNIT,TTY	TAD DIODA
1317	001247	260140	0017231	DETACHI PUSHJ PDP.CTEXT1	GET ARGUMENT
1318	001250		000000	JUMPE TAC1, TTYDET	JOHN Y ROETT TYPED
1319		200504			JGET PROJPROG. NUMBER
1320		312500	001167		PRJPRG = [1,1]?
1321		254000	001305		INO-PRINT ERROR MSG.
1322	001254	200040	000002		JYES-SET UP DEVICE NAME
1323	001255	261140	000006		ISAVE TTY ODB
1324	ØØ1256	260140	001173		ISEARCH FOR DEVICE
1325	001257		0013021	JRST TEMP1	DEVICE NOT FOUND
1326	001260		000004	MOVE TAC, DEVMOD (DEVDAT)	ICHECK TO SEE IF THIS IS DSK
1327		603040	200000	TLNE TAC, DVDSK	JIS IT THE DSK?
1328		254000	001302'		IYES-PRINT ERROR MSG.
1329			400000	MOVEL TAC1, ASSCON	FOUND-SET UP ASSIGNED BY CONSOLE
1330	001264		000672		ITRY TO ASSIGN
1331			001304		ICAN'T ASSIGN
1332		603300	000100		IS THIS SYSTEM DEVICE?
$1333 \\ 1334$	001267 001270		001302' 000012	• • • • • • •	IYES-PRINT ERROR MSG.
1334	001270		000012 001177'	XOP T,T	IND-SET TO ZERO
1335			0011//		ISET JOB NO. TO NULL JOB
1337	001272		000004 000010	MUVE TAC, DEVMOD (DEVDAT)	ICHECK TO SEE IF THIS IS A TTY
1338			001300'	TLNN TAC,DVITY JRST .+4	JIS IT A TTY?
1339	001275		001201'		INC-GO AHEAD
1340			777777		IYES-SET UP FOR SCNSER ISET LEFT HALVE OF TTYTAB TO -1
1341			ØØ12Ø3.		ISO THAT SCNSER CHECKS FOR THIS
1342		262140		POP PDP, DEVDAT	IRESTORE TTY DDB
1343	001301			POPJ PDP.	ISUCCESSFUL RETURN

COMCON	- COMMAN	D DECODER	AND SA	VEGET ROU	JTINES	- V	433	MACRO	.V36	19:02	2 4-1	UN-69	PAGE	48
	/RCC Ø3	JUN 69				1			•					
1344	001302	262140	000006	TEMP1;	POP PI		FVDAT			RESTOR	-	0.00		
1345	001303	254000	0007701		JRST								AND R	CTUD
1346	001304	20.000		TEMP21					,	POT NT	ENNON	M30.	ANU R	EIURI
1347				IFE FTTT	LASER.	é pi	ne ene.					TAPE	TTY DD	0
1348					JRST /			ULTUR					AND R	
1349				>	u ,	1000			'	F 11 4 11 1	Enton	100.		E I ORI
1350				IFN FTT	LYSER.	è								
1351	001304	254000	0007071		JRST		SSER1							
1352				>	QQ !	1								
1353	001305	265040	0020151	LOGER1:	JSP TA		RRMES							
1354	001306		623650	Lootner			N'T DET							
	001307		552100					0						
1355	001310		606424	/										
	001311		000000	•										
1356				>>	10.056	: B0'	TH FTLO							

1357				J"DAYTI	ME" - PRINT TIME OF DAY	
1358						
1359				EXTERNA	L TIME, THSDAT, MONTAB, JIFM	41N
1360						
1361	001312			DAYTIMI		
1362				IFN	FTLOGIN, <	
1363	001312	322200	001330'		JUMPE ITEM,DAYTM1	
1364	001313	260140	002071'			IWAS AN ARGUMENT TYPED?
1365	ØØ1314	254000	001330'			ING, PRINT TIME
1366	ØØ1315	254000	002000'			IERROR
1367	ØØ1316	554044	ØØ1251'			IYES
1368	ØØ1317	302040	000001			IS THIS PROJECT 1?
1369	001320	254000	001330'			IND, PRINT TIME OF DAY ANYWAY (IGNORE ARG)
1370	ØØ1321	200040	000002			IYES, RESET TIME ACCORDING TO ARGUMENT
1371	001322	231040	000144		IDIVI TAC, +D100	
1372	001323	221040	000074		IMULI TAC, +D60	
1373	001324	270040	000002			COMPUTE MINUTES
1374	001325	221040	000000			ICOMPUTE JIFFIES
1375	001326	202040	000000			JAND STORE
1376	001327	263140	000000		POPJ PDP,	
1377		_	_	>		
1378	001330	200040	000000	DAYTM1:		IPRINT TODAY'S DATE
1379		231040	000037		IDIVI TAC, +D31	
1380	001332	250040	000002			IYEAR AND MONTH IN TAC1
1381	001333	260140	000000			JADD 1 TO DAY(IN TAC) AND PRINT DECIMAL
1382	001334	201040	000000		MOVEI TAC,0	
1383	001335	235040	000014		DIVI TAC. +D12	
1384	001336	250040	000002		EXCH TAC, TAC1	
1385	001337	200041	000000			IMONTH
1386	001340	137040	003062		DPB TAC, [POINT 21, DAMESS	5,27]
1387	001341	201040	000000		MOVEL TAC, DAMESS	
1388	001342	260140	002017			JPRINT DAY
1389	001343	201042	000100		MOVEI TAC, +D64(TAC1)	
1390	001344	260140	000530'			JPRINT YEAR
1391	001345	260140	002032		PUSHJ PDP, PRSPC	
1392	001346	200040	001326			PRINT TIME OF DAY
1393	001347	254000	002174'		JRST PRTIM1	

1394 1395				RNAL FTTIME FTTIME:<	
1396			177	ME (JOB NO.)" + PRINT TOT	AL AND INCREMENTAL RUNNING TIME FOR A JOB
1397			1 FOL	LOWED BY KILO-CORE TICKS	AC AND INCREMENTAL RONAING TIME FOR A JUB
1398			J " T I	ME 0" IMPLIES RUNTIME FOR	NULL JOB AND THE TOTAL TIME SPENT SHUFFLING
1399			;	IF NO JOB NO. GIVEN-T	IME WILL BE FOR CURRENTLY LOGGEN IN JOB NO.
1400					
1401			EXTE	RNAL RTIME, TTIME, SHFWRD, W	DPJIF, JOBN, JBTSTS, CLRWRD, LSTWRD
1402					
1403	001350	260140	002071' RUNT	IM: PUSHJ PDP, DECIN	IGETJOB NO, ARG,
1404	001351	254000	001413	JRST RUN1	JNO ARG. GIVEN - LOGGED IN? JILLEGAL DECIMAL CHARACTER RETURN
1405 1406	001352	254000	002000	JRST COMERA	JILLEGAL DECIMAL CHARACTER RETURN
1407	001353 001354	322100	001360'	JUMPE TAC1, RUN2	IRUNTIME Ø GIVEN
1408	001355	3Ø110Ø 25400Ø	ØØ1142' ØØ1206'	CAIL TAC1, JOBN	JJOB NO. TOO BIG?
1409	001356	200042	000064	JRST ATT1	JYES, ILLEGAL JOB. NO.
1410	001357	254000	002146'	MOVE TAC,TTIME(TAC1) JRST PRTIME	JJOB NO, TOO BIG? JYES,ILLEGAL JOB. NO, JTIME SINCE LAST LOGGIN
1411	001007	234000	ND5740	JUST FRITTE	JPRINT AND RETURN
1412	001360	260140	ØØ2Ø25' RUN2	: PUSHJ PDP, INLMES	JPRINT
1413	001361	516210	646100	ASCIZ /SHFL /	JRLLEGAL DECIMAL CHARACTER RETURN JRUNTIME Ø GIVEN JYES,ILLEGAL JOB. NO. JTIME SINCE LAST LOGGIN JPRINT AND RETURN JPRINT J"SHUFFLING " JNO. WORDS SHUFFLED JNO. WORDS/JIFFY USING BLT JPRINT SHUFFLE TIME
	001362	000000	000000		
1414		200040	000000	MOVE TAC, SHEWRD	ING, WORDS SHUFFLED
1415 1416	ØØ1364 ØØ1365	231040	000000	IDIVI TAC, WDPJIF	IND, WORDS/JIFFY USING BLT
1417	001365	260140 260140	002146'	PUSHJ PDP, PRTIME	JPRINT SHUFFLE TIME
1418	001367	552071	002025' 751100	PUSHJ PDP, INLMES	
1410	001370	000000	000000	ASCIZ /ZCOR /	
1419		200040	0000000		
1420	001372	231040	001364	MOVE TAC, CLRWRD IDIVI TAC, WDPJIF	
1421	001373	260140	002146	IDIVI TAC,WDPJIF PUSHJ PDP,PRTIME	
1422	001374	260140	0020251	PUSHJ PDP; INLMES	PRINT TIME SPENT CLEARING CORE
1423	001375	462372	352100	ASCIZ /LOST /	
	001376	000000	000000	20012 / LOGI /	
1424	001377	200040	ØØØØØØ	MOVE TACALSTWRD	
1425	001400	260140	002146'	PUSHJ PDP PRTIME	PRINT TIME SPENT "LOST" RUNNING NULL JOR
1426	001401	260140	002025	PUSHJ PDP, INLMES	JPRINT
1427	001402	472531	446100	ASCIZ /NULL /	J"NULL TIME "
	001403	000000	000000		
1428	001404	200040	001356'	MOVE TAC, TTIME	JPRINT NULL JOB RUNNING TIME
1429	001405	260140	002146'	PUSHJ PDP, PRTIME	
1430	001406	260140	002025	PUSHJ PDP, INLMES	IPRINT TOTAL SYSTEM UP TIME
1431	001407	526404	020100	ASCIZ /UP /	
	001410	000000	000000		
1432	001411	200040	000000	MOVE TAC, UPTIME	
1433	ØØ1412	254000	002146'	JRST PRTIME	JAND RETURN

1435	001413			RUN1:	
1436				IFE FTLOGIN,<	
1437				MOVEL TAC.Ø	JGET SET TO CLEAR INCREMENTAL RUN TIME
1438				>	JOET DET TO OGERA TAGAENEATRE ROA TIME
1439				IFN FTLOGIN, <	
1440	001413	205040	000004	MOVSI TAC, JLOG	IIS JOB LOGGED IN?
1441	001414	636044	001145	TDZN TAC, JBTSTS(ITEM)	ITEST JOB STATUS BITS AND CLEAR TAC ALWAYS
1442	001415	254000	0020341	JRST NOTENF	INO, NEED MORE ARGUMENTS
1443				>	
1444	001416	250044	0000631	EXCH TAC, RTIME(ITEM)	JGET CURRENT INCR, TIME AND CLEAR
1445	001417	260140	002146'	PUSHJ PDP, PRTIME	IPRINT TIME SINCE LAST TIME COMM.
1446	001420	200044	001404'	PRTTIM: MOVE TAC, TTIME(ITEM)	JGET TOTAL ACCUMULATED TIME
1447				IFN FTKCT,<	
1448	001421	260140	ØØ2146'	PUSHJ PDP, PRTIME	
1449				EXTERN JRTKCT	
1450	001422	260140	ØØ2Ø25'		<pre>#PRINT "K*CPUSEG=</pre>
1451	001423	456231	447532	ASCI7 /KILO-CORE-SEC=/	
	001424	416372	242532		
	001425	516130	336400		
1452	001426	200044	000065	MOVE TAC, JBTKCT(ITEM)	PRODUCT OF NO. OF K CORE* NO. OF JIFFIES RU
1453	001427	231040	ØØØØØØ	IDIVI TAC, JIFSEC	JAT THAT SIZE, CONVERT TO KILO CORE SECONDS
1454	001430	260140	001344	PUSHJ PDP, RADX10	JAND PRINT IN DECIMAL
1455	001431	254020	002016'	JRST CRLF	JPRINT IRLF
1456				>	
1457				IFE FTKCT,<	
1458 1459				JRST PRTIME	JPRINT IT AND RETURN
				>	

1461				ROUTIN	E TO LET TTY TALK TO ANY	COTHER RING OF TTYS
1462				3	"TALK TTYN"	
1463				1	TTYN NEED NEVER HAVE BE	EEN TYPED ON BEFORE
1464						
1465				INTERNA	L FTTALK	
1466						
1467				IFN FTT		
1468				EXTERNA	L TTYTLK	
1469						
147Ø	001432	260140	ØØ1723'	TALK:	PUSHJ PDP/CTEXT1	JGET ARGUMENT
1471	ØØ1433	322100	001442'			INONE SPECIFIED
1472	001434	200040	000002		MOVE TAC, TAC1	
1473	001435	260140	001256'		PUSHJ PDP,DEVSRC	ISEARCH FOR DEVICE
1474	001436	254000	ØØ1445'		JRST TALK1	IDEVSRC SHOULD FIND A FREE TTY DD
1475						; EVEN IF TTY NEVER TYPED ON YET
1476	001437	260140	000000		PUSHJ PDP,TTYTLK	
1477	001440	254000			JRST TALK1	
1478	001441	263140	ØØØØØØ		POPJ PDP,	
1479						
1480	001442	205200	000400	TALK2:	MOVSI ITEM, NOINCK	SET FLAGS SO RESPONSE WILL PRINT
1481	001443	202203	777777		MOVEM ITEM, -1(PDP)	
1482	001444	254000	0020341		JRST NOTENF	
1483						
1484	001445	200303	777776	TALK1:	MOVE DEVDAT,-2(PDP)	RESTORE TTY DDB
1485	001446	205200	000400		MOVSI ITEM,NOINCK	ISET FLAGS TO PRINT RESPONSE
1486	001447	202203	777777		MOVEM ITEM,-1(PDP)	
1487	001450	265Ø4Ø	002015'		JSP TAC, ERRMES	
1488	001451	412532	354432		ASCIZ /BUSY	
1489	001452	Ø50000	000000	/		
1490				>		

1491				INTERNA	AL FTEXAMINE	
1493				IFN FTE	EXAMINE, <	
1494 1495				: "F X A M 1	INE LOCH - LOOKS & CONTEN	TS OF LOC AND PRINTS IN OCTAL
1496				IF LOC	C IS MISSING, NEXT LOC IS	PRINTED
1497				JIF PRE	EVIOUS WAS E COMMAND, SAM	E LOC IF PREVIOUS WAS D COMMAND
1498				ITAB. 1	IS PRINTED INSTEAD OF CRL	F(LIKE DDT)
1499 1500						
1501				EXTERNA	L TPOPJ,JOBPC	
1502	001453	335007	000000	FCOM:	SKIPCE JOBEXM(IDAT)	;WAS PREVIOUS D OR E COMMAND, A D COMMAND?
1503	001454	350007	001453		ABS INREYMEINATI	THO IT WAS AN E INDEPENDENT IN GLOS WE THERE NO
1504	001455	563007	001454'		HRRUS JUBEAM(JUAT)	JYES, FLAG THAT E HAPPENED LAST(LH=-1)
1505	001456	260140	002073		PUSHJ PUPJUCIIN	IGET OCTAL LOCATION
1506 1507	ØØ1457 ØØ1460	334107 254000	001455' 002000'		SKIPA TAC1, JOBEXM(JDAT)	INONE SPECIFIED, USE LAST LOC OF D OR NEXT OF E
1508	001460	260140	002000		JRST COMERA	FILLEGAL CHARACTER
1509	001462	550600	000002		PUSHJ POP,DEAT HRRZ UUO,TAC1	ICHECK FOR AC REFERENCE AND STORE JOBEXM IIGNORE LH
1510	001463	505600	000007		HRLI UUO, PROG ISET TO	
1511	001464	260140	002234		PUSHJ PDP, GETWRD	JGET WORD FROM LOW OR HIGH SEG
1512	001465	254000	001550		JRST ECOMA	IERROR, OUT OF BOUNDS
1513 1514	001466	261140	000001		PUSH PDP, TAC	SAVE CONTENTS OF LOC TO BE PRINTED
1514	001467 001470	550047 260140	001457' 000000		HRRZ TAC, JOBEXM(JDAT)	IPRINT LOC BEING EXAMINED
1516	001471	260140	0020251		PUSHJ POP,OCTPNT PUSHJ POP,INLMES	
1517	001472	274222	000000		ASCI7 #/ *	JPRINT SLASH TAB
518	001473	554043	000000		HLRZ TAC, (PDP)	PRINT LEFT HALF
1519	001474	260140	001470		PUSHJ PDP,OCTPNT	
520	001475	260140	0020251		PUSHJ PDP, INLMES	JPRINT SPACE
521 522	001476	200000	000000		ASCIZ / /	
.523	001477 001500	550043 260140	000000 001474'		HRRZ TAC,(PDP) Pushj Pdp,OctPnt	JPRINT RIGHT HALF
524	001501	260140	002025			
525	001502	044000	000000		ASCIZ / /	JPRINT FINAL TAB
526	001503	254000	000231'			IPOP PDP,TAC,POPJ PDP,

1527 j"DEPOSIT LH RH LOC" - DEPOSITS XWD LH.RH IN LOCATION LOC 1528 jIF LOC IS MISSING, ASSUME NEXT LOC IF PREVIOUS D, SAME LOC IF PREVIOUS F 1530 EXTERNAL JOBEXH, JOBPFI 1533 001505 254000 002073' DCOMI PUSHJ PDP,OCTIN IGT LH 1534 001505 254000 002073' DCOMI PUSHJ PDP,OCTIN IGT LH 1535 001506 254000 002000' HRLM TACI,IDS ISAVE LH 1536 001510 260140 002073' DCOMA IILEGAL CHARGTER 1537 001511 254000 002000' HRLM TACI,IDS ISAVE LH 1538 001512 254000 002000' HRLM TACI,IDS ISAVE LH 1539 001512 254000 002000' HRLM TACI,IDS ISAVE RH 1540 001515 5410 001200' HRM TACI,IDS ISAVE RH 1541 001515 5500 001200' HRRM TACI,IDS ISAVE RH IHC CAMARGTER 1541 001517 26010 001200' HRRM TACI,IDS ISAVE RH INC INCREMENT IN CASE USER TYPED NOT THIRD 1542 001514' ADS JOREXM(JDAT) IHAS PREVIOUS D OR E AN E COMMAND? 1544 001512 254000 001515' HRRSS JOREXM(JDAT) IFLAG THAT A D WAS DONE LAST(LH=0) 1544 001512 254000 001516' SKIPA TACI,JOBEXM(JDAT) IFLAG THAT A D WAS DONE LAST (LH=0) 1546 001521 254000		CC Ø3 J	, UN UF				
1529 iIF LOC IS MISSING, ASSUME NEXT LOC IF PREVIOUS D, SAME LOC IF PREVIOUS F 1530 EXTERNAL JOBEXM, JOBPFI 1531 EXTERNAL JOBEXM, JOBPFI 1532 001504 200140 002034 JRST COMERA ILLEGAL CHARACTER 1533 001506 254000 002000 HRM TAC1, IOS ISAVE LH 1534 001507 506100 002000 HRM TAC1, IOS ISAVE LH 1535 001510 20010 002001 JRST COMERA ILLEGAL CHARACTER 1536 001510 20010 002001 JRST NOTENF INOT ENOUGH ARGUMENTS 1537 001510 20010 002001 JRST NOTENF JNOT ENOUGH ARGUMENTS 1538 001511 20000 002034 JRST NOTENF JNOT ENOUGH ARGUMENTS 1539 001512 2054000 002034 JRST NOTENF JNOT ENOUGH ARGUMENTS 1540 001512 2054000 002034 JRST NOTENF JNOT ENOUGH ARGUMENTS 1541 001514 331007 001467 SKIPL JOBEXM(JDAT) JNOT ENOUGH ARGUMENTS 1542 001514 0020073 PUSHJ PDP,OCTIN JRST COMERA JILLEGAL CHARACTER 1544 001512 0010 001515 HRRES JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 0015							
1530 EXTERNAL JOBEXM, JOBPFI 1531 EXTERNAL JOBEXM, JOBPFI 1532 001504 260140 002073' DCOMI PUSHJ PDP, OCTIN IGET LH 1533 001506 254000 002000' JRST COMERA ILLEGAL CHARACTER 1534 001507 500160 000000 HRLM TACL, IOS ISAVE LH 1537 001510 260140 002001' JRST COMERA ILLEGAL CHARACTER 1538 001507 500160 000000 HRLM TACL, IOS ISAVE LH 1539 001512 254000 002001' JRST COMERA ILLEGAL CHARACTER 1530 001512 254000 002000' HRLM TACL, IOS ISAVE LH 1530 001512 254000 002000' HRLM TACL, IOS ISAVE RH 1540 001513 54007 001457' SKIPL JOBEXM(JDAT) 1541 001514 331007 001515' HRLM JOBEXM(JDAT) 1544 001517 260140 002007' PUSHJ PDP, OCTIN IGREMENT IN CASE USER TYPED NOT THIRD 1544 001521 254000 002073' PUSHJ PDP, OCTIN IGREMENT IN CASE USER TYPED NOT THIRD 1545 001521 260140 002073' PUSHJ PDP, OCTIN IGREMENT IN CASE USER TYPED NOT THIRD 1546 001521 254000 001516' SKIPA TACL, JOBEXM(JDAT) INCREMENT IN CASE USER TYPED NOT THIRD 1540 001521 254000 002073' PUSHJ PDP, OCTIN IGREMENT IN CASE USER TYPED NOT THIRD 1541 001521 254000 001516' SKIPA TACL, JOBEXM(JDAT) INCREMENT IN CASE USER TYPED NOT THIRD 1540 001521 254000 001516' SKIPA TACL, JOBEXM(JDAT) IFLEGAL CHARACTER 1550 001522 260140 000041 INST COMERA ILLEGAL CHARACTER				3"DEPUS	SIT LH RH LOC" - DEPOSITS	XWD LH, RH IN LOCATION LOC	
1531 EXTERNAL JOBEXM, JOBPFI 1532 2601504 260140 002073' DCOM: PUSHJ PDP, OCTIN JGET LH 1533 001506 254000 002080' JRST NOTENF INOT ENOUGH ARGUMENTS 1535 001506 254000 002080' JRST COMERA JILLEGAL CHARACTER 1536 001506 254000 002034' JRST COMERA JILLEGAL CHARACTER 1537 001511 254000 002034' JRST COMERA JILLEGAL CHARACTER 1538 001512 254000 002030' JRST COMERA JILLEGAL CHARACTER 1540 001513 542000 002000' JRST COMERA JILLEGAL CHARACTER 1541 001513 542000 002000' JRST COMERA JILLEGAL CHARACTER 1541 001513 542000 002000' JRST COMERA JILLEGAL CHARACTER 1542 001513 542000 001514' AOS JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1542 001520 33407 001515' HRR2S JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1546				116 200	S IS MISSING, ASSUME NEXT	LOC IF PREVIOUS D, SAME LOC IF PREVIOUS	E
1532 Definite Collamboli (1) 1533 001504 260140 0020031 DCOM1 PUSHJ PDP,OCTIN IGET LH 1534 001505 254000 0020001 JRST NOTENF INOT ENOUGH ARGUMENTS 1535 001506 254000 0020001 JRST COMERA ILLEGAL CHARACTER 1536 001510 260140 0020001 JRST COMERA ILLEGAL CHARACTER 1536 001512 254000 0020001 JRST COMERA ILLEGAL CHARACTER 1537 001512 254000 0020001 JRST COMERA ILLEGAL CHARACTER 1540 001513 542100 00000 HRRM TAC1,10S ISAVE RH 1541 001514 31807 001467' SKIPL JOBEXM(JDAT) IMAS PREVIOUS D OR E AN E COMMAND? 1542 001514 A0S JOBEXM(JDAT) IMAS PREVIOUS D OR E AN E COMMAND? ISAVE RH 1543 001514 31807 001516' HRRES JOBEXM(JDAT) INO. INCREMENT IN CASE USER TYPED NOT THIRD 1544 001521 260140 002073' PUSHJ PDP,CTIN IGET LOC 1547 001520 334107 <td></td> <td></td> <td></td> <td>FXTERN</td> <td>N INPEYM. INPET</td> <td></td> <td></td>				FXTERN	N INPEYM. INPET		
1534 Ø01505 254000 Ø02034 JRST NOTENF JNOT ENOUGH ARGUMENTS 1535 Ø01506 254000 Ø02000' JRST COMERA ILLEGAL CHARACTER 1536 Ø01507 506100 Ø00000 HRLM TAGI,IOS JSAVE LH 1537 Ø01512 254000 Ø02034' JRST NOTENF JNOT ENOUGH ARGUMENTS 1538 Ø01512 254000 Ø02000' JRST COMERA JILLEGAL CHARACTER 1541 Ø01512 254000 Ø02000' HRM TAGI,IOS JSAVE RH 1541 Ø01514 AOS JOBEXM(JDAT) JMAS PREVIOUS D OR E AN E COMMAND? 1542 001515 350007 Ø01514' AOS JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 Ø01517 260140 Ø02073' PUSHJ POP,OCTIN JFOP SUCCESSIVE D'S 1545 Ø01517 60140 Ø02073' PUSHJ POP,OCTIN JFLEGT HAT A D WAS DONE LAST(LH=0) 1546 Ø01521 250140 Ø02000' JRST COMERA JILLEGAL CHARACTER 1547 Ø01520 334107 Ø01516' SKIPA TACI,JOBEXM(JDAT) INOT SPECIFIED, USE LAST OF E OR NEX				ENTENNY	C DOBERHIJODEFT		
1534 001505 254000 002034; JRST NOTENT JNOT ENOUGH ARGUMENTS 1535 001506 254000 002000 HRIM TAGI,IDS JSAVE LH 1537 001511 254000 002034; JRST NOTENF JNOT ENOUGH ARGUMENTS 1537 001510 254000 002034; JRST NOTENF JNOT ENOUGH ARGUMENTS 1538 001511 254000 002000; HRIM TAGI,IDS JSAVE LH 1539 001512 254000 002000; HRRT ACI,IDS JSAVE RH 1541 001514 350007 001514; AOS JOBEXM(JDAT) JNAS PREVIOUS D OR E AN E COMMAND? 1542 1543 001515 350007 001514; AOS JOBEXM(JDAT) JNAS PREVIOUS D OR E AN E COMMAND? 1544 001517 260140 002073; PUSNJ POP,OCTIN JCHLag THAT A D WAS DONE LAST(LH=0) 1545 001512 254000 002000; JRST COMERA JILLEGAL CHARACTER 1546 001521 254000 002073; PUSNJ POP,OCTIN JCET AT A D WAS DONE LAST(LH=0) 1546 001517 260140 0020200; JRST CO	1533 001	1504 2	60140 002	073 DCOM:	PUSH, PDP.OCTIN	ICET IN	
1535 001506 254000 022000' JRST COMERA JILLEGAL CHARACTER 1536 001510 260140 000000 HRLM TAC1,IDS JSAVE LH 1537 001511 254000 002203' PUSHJ PDP,OCTIN JGET RH 1538 001511 254000 002000' JRST COMERA JILLEGAL CHARACTER 1539 001512 254000 002000' JRST COMERA JILLEGAL CHARACTER 1540 001512 254000 002000' JRST COMERA JILLEGAL CHARACTER 1541 001512 254000 002000' HRNT TAC1,IOS JSAVE RH 1541 001514 331007 001467' SKIPL JOBEXM(JDAT) JND, INCREMENT IN CASE USER TYPED NOT THIRD 1544 1545 701516' SKIPL JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 1547 701517 20140 002073' PUSHJ PDP,OCTIN JGET LOC 1548 001512 254000 001516' SKIPL JOBEXM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1549 701524 254000 002007' JRST COMERA JILLEGAL CHA		1505 2				INOT ENOUGH ARCHMENTS	
1536 Ø01507 506100 Ø00000 HRLM TACI,IOS JSAVE LH 1537 Ø01511 254070 Ø02034' JRST NOTERF JNOT ENOUGH ARGUMENTS 1538 Ø01512 254070 Ø02034' JRST NOTERF JNOT ENOUGH ARGUMENTS 1539 Ø01512 254070 Ø02034' JRST NOTERF JNOT ENOUGH ARGUMENTS 1540 Ø01514 331007 Ø016467' SKIPL JOBEXM(JDAT) JHAS PREVIOUS D OR E AN E COMMAND? 1541 Ø01514 331007 Ø01541' AOS JOBEXM(JDAT) JHAS PREVIOUS D OR E AN E COMMAND? 1543 Ø01516 553007 Ø01515' HRRZS JOBEXM(JDAT) JNON, INCREMENT IN CASE USER TYPED NOT THIRD 1544 Ø01517 260140 Ø02073' PUBJ PDP,OCTIN JGET LOC 1544 Ø01521 260140 Ø02073' PUBJ PDP,OCTIN JGET LOC 1545 Ø01520 334107 Ø01516' SKIPA TAC1,JOBEXM(JDAT) INOT SPECIFIED, USE LAST OF E OR NEXT OF D 1546 Ø01521 254000 Ø0200' JRST COMERA JILLEGAL CHARACTER 1554 Ø01522 260140 Ø00441'	1535 001	1506 2	54000 002	0001			
1537 Ø01510 260140 Ø02073' PUSHJ PDP,OCTIN jGET RH 1538 Ø01511 254000 Ø02073' JRST NOTENF JNOT ENOUGH ARGUMENTS 1539 Ø01512 254000 Ø02000' JRST COMERA JILLEGAL CHARACTER 1540 Ø01514 331007 Ø01467' SKIPL JOBEXM(JDAT) JWAS PREVIOUS D OR E AN E COMMAND? 1541 Ø01515 350007 Ø01514' AOS JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 Ø01516 553007 Ø01515' HRRZS JOBEXM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1545 Ø01516 553007 Ø01515' HRRZS JOBEXM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1546 Ø01521 260140 Ø02000' JRST COMERA JILLEGAL CHARACTER 1556 Ø01522 260140 Ø00441' PUSHJ PDP,OCTIN JGET LOC 1557 Ø01522 260140 Ø00441' PUSHJ PDP,OCTIN JGET CHARACTER 1557 Ø01522 260140 Ø00441' PUSHJ PDP,OCHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1556 Ø01522 260140	1536 001	1507 5	06100 000	000			
1538 001511 254000 002001' JRST NOTENF JNOT ENOUGH ARGUMENTS 1539 001512 254000 002000' JRST COMERA JILLEGAL CHARACTER 1540 001513 542100 002000' HRMT AC1/IOS JSAVE RH 1541 001514 331007 001467' SKIPL JOBEXM(JDAT) JWAS PREVIOUS D OR E AN E COMMAND? 1542 JLH=-1 IF E, LH=0 IF D 1543 001515 350007 001514' AOS JOBEXM(JDAT) JWAS PREVIOUS D OR E AN E COMMAND? 1544 001515 553007 001515' HRRES JOBEXM(JDAT) JWAS PREVIOUS D OR E LAST (LH=0) 1545 001516 553007 001515' HRRES JOBEXM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1546 001521 260140 002000' JRST COMERA JILLEGAL CHARACTER 1547 001522 260140 002000' JRST COMERA JILLEGAL CHARACTER 1549 001522 260140 002000' JRST COMERA JILLEGAL CHARACTER 1558 001522 260140 002000' JRST COMERA JILLEGAL CHARACTER		1510 20	60140 002	0731			
1539 ØØ1512 254000 ØØ2000' JRST COMERA! JILLEGAL CHARACTER 1540 ØØ1513 542100 ØØ0000 HRM TAC1,IOS JSAVE RH 1541 ØØ1514 ØØ1514' SKIPL JØEZM(JDAT) JHAS PREVIOUS D OR E AN E COMMAND? 1543 ØØ1515 350007 Ø01515' HRRES JØEZM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 JS45 ØØ1516 553007 Ø01515' HRRES JØEZM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1545 ØØ1516 053007 ØØ1516' HRRES JØEZM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1546 ØØ1521 254000 ØØ2000' JRST COMERA JILLEGAL CHARACTER 1547 ØØ1521 054140 ØØ2000' JRST COMERA JILLEGAL CHARACTER 1549 IFN FT2REL SKIPA TAC1,JOBEXM(JDAT) JFLAG THAT A D WAS DONE LAST OF E OR NEXT OF D 1549 JRST COMERA JILLEGAL CHARACTER JILLEGAL CHARACTER 1549 IFN FT2REL JRST COMERA JILLEGAL CHARACTER 1550 IFN FT2REL SKIPA TAC1,JOBEXM(JDAT) JECHECK TO SEE IF HIGH SEG IS SHARABLE 1551		1511 2	54000 002	0341	JRST NOTENF		
1540 001513 542100 00000 HRRM TAC1,IOS JSAVE RH 1541 001514 331007 001467' SKIPL JOBEX (JDAT) JWAS PREVIOUS D OR E AN E COMMAND? 1542 JLH=-1 IF E, LH=0 IF E, LH=0 IF E, LH=0 IF E, LH=0 1543 001516 553007 001515' HRRES JOBEXM(JDAT) JND, INCREMENT IN CASE USER TYPED NOT THIRD 1544 JF PS SUCCESSIVE D'S JF PS SUCCESSIVE D'S 1545 001516 553007 001516' HRRES JOBEXM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=0) 1546 001521 254000 002073' PUSHJ PDP.OCTIN JEET LOC 1547 001520 334107 001516' SKIPA TAC1,JOBEXM(JDAT) INOT SPECIFIED, USE LAST OF E OR NEXT OF D 1548 001521 254000 002000' JRST COMERA JILLEGAL CHARACTER 1550 IFN FT2REL.<		1512 2	54000 002	000'	JRST COMERA		
1541 001514 331007 001467' SKIPL JOBEXM(JDAT) ; WAS PREVIOUS D OR E AN E COMMAND? 1543 001515 350007 001514' AOS JOBEXM(JDAT) ; LH=-1 IF E, LH=0 IF D 1544 001515 350007 001515' HRRES JOBEXM(JDAT) ; FOR SUCCESSIVE D'S 1546 001517 260140 002073' PUSHJ POP,OCTIN ; GET LOC 1547 001520 334107 001516' SKIPA TAC1,JOBEXM(JDAT) ; FLAG THAT A D WAS DONE LAST(LH=0) 1548 001521 254000 002000' JRST COMERA ; ILLEGAL CHARACTER 1549 001522 260140 000441' PUSHJ POP,CHKMED ; CHECK TO SEE IF HIGH SEG IS SHARABLE 1550 IFN FT2REL.<			42100 000	000	HRRM TAC1, IOS	ISAVE RH	
1542 j LH=-1 IF E, LH=0 IF D 1543 001515 350007 001514' AOS JOBEXM(JDAT) jNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 j FOR SUCCESSIVE D'S jFLAG THAT A D WAS DONE LAST(LH=0) jFLAG THAT A D WAS DONE LAST(LH=0) 1546 001517 260140 002073' PUSHJ PDP,OCTIN jGET LOC 1547 701520 334107 001516' SKIPA TAC1,JOBEXM(JDAT) iNOT SPECIFIED, USE LAST OF E OR NEXT OF D 1548 001521 254000 002000' JRST COMERA jILLEGAL CHARACTER 1550 IFN FT2REL,<		1514 33	31007 001	467'	SKIPL JOBEXM(JDAT)	IWAS PREVIOUS D OR E AN E COMMAND?	
1543 ØØ1515 350007 ØØ1514' AOS JOBEXM(JDAT) JNO, INCREMENT IN CASE USER TYPED NOT THIRD 1544 JFOP SUCCESSIVE D'S JFOR SUCCESSIVE D'S JFAG THAT A D WAS DONE LAST(LH=Ø) 1546 ØØ1516 553007 ØØ1515' HRRZS JOREXM(JDAT) JFLAG THAT A D WAS DONE LAST(LH=Ø) 1546 ØØ1517 26014Ø Ø02073' PUSHJ PDP,OCTIN JGET LOC 1547 ØØ1520 334107 ØØ1516' SKIPA TAC1,JOBEXM(JDAT) JNOT SPECIFIED, USE LAST OF E OR NEXT OF D 1548 ØØ1521 254000 Ø02000' JRST COMERA JILLEGAL CHARACTER 1559 IFN FT2REL, IFN FT2REL, EXTERN CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1551 Ø01522 26014Ø Ø00441' PUSHJ PDP,CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1557 IFN FT2REL, IFN TAC1,77776Ø JIN USER ACS JSO HE CANNOT TURN UWP OFF 1555 Ø01523 606100 77776Ø TRNN TAC1,77776Ø JIN USER ACS 1557 Ø1524 25404Ø Ø00007 HLRZ TAC,PROG JGET PROTECTION 1556 Ø01526 30310Ø Ø0000Ø					: ; LH=+1	IF E, LH=Ø IF D	
1544 j FOP SUCCESSIVE D'S 1546 001516 553007 001515' HRRZS JOBEXM(JDAT) jFLAG THAT A D WAS DONE LAST(LH=0) 1547 001520 334107 001516' SKIPA TAC1, JOBEXM(JDAT) jGET LOC 1548 001521 254000 002000' JRST COMERA jILLEGAL CHARACTER 1550 1551 001522 260140 000441' PUSHJ PDP, CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1552 IFN FT2REL, EXTERN CHKMED IFN FT2REL, IF YES, SET USER-MODE WRITE PROTECT (UWP) 1553 001522 260140 000441' PUSHJ PDP, CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1554 IFN FT2REL, IFN TAC1,777760 IRN TAC1,777760 IRN THIS USER, AND SET MEDDLE FOR THIS USER 1555 554040 001531' JRST DCOM1 JYES 1556 001523 606100 777760 TRNN TAC1,777760 IIN USER ACS 1557 001524 254040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPFI JNO, GREATER THAN HIGHEST LOC, PROTECTED <		1515 3	50007 001	514'	AOS JOBEXM(JDAT)		
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1340 001517 260140 002073' PUSHJ PDP,OCTIN JGET LOC 1547 001520 334107 001516' SKIPA TAC1,JOBEXM(JDAT) INOT SPECIFIED, USE LAST OF E OR NEXT OF D 1548 001521 254000 002000' JRST COMERA JILLEGAL CHARACTER 1549 IFN FT2REL, IFN FT2REL, JILLEGAL CHARACTER 1550 EXTERN CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1551 001522 260140 000441' PUSHJ PDP,CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1552 IFN FT2REL, IFN FT2REL, IFN FT2REL, IFN FT2REL, 1553 FOR THIS USER, AND SET MEDDLE FOR THIS USE IFN FT2REL, IFN FT2REL, 1554 JFOR THIS USER, AND SET MEDDLE FOR THIS USE IFN FT2REL, IFN FT2REL, 1555 001523 606100 777760 TRNN TAC1,777760 JIN USER ACS 1556 001524 254000 001531' JRST DCOM1 JYES 1558 001526 303100 000000 CAILE TAC1,JOBFFI JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 IFN BOUNDS? JSTB DCOMA JNO					HRRZS JOBEXM(JDAT)	FLAG THAT A D WAS DONE LAST(LH=0)	7
1548 001521 25400 002000' JRST COMERA JILLEGAL CHARACTER 1549 IFN FT2REL,<						IGET LOC	
1340 001521 254000 002000' JRST COMERA JILLEGAL CHARACTER 1559 1551 001522 260140 000441' PUSHJ PDP,CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1551 001522 260140 000441' PUSHJ PDP,CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1552 1553 IF YES, SET USER-MODE WRITE PROTECT (UWP) IF OR THIS USER, AND SET MEDDLE FOR THIS USE 1554 555 SO HE CANNOT TURN UWP OFF IS O HE CANNOT TURN UWP OFF 1556 001523 606100 777760 TRNN TAC1,777760 JIN USER ACS 1557 001524 254000 001531' JRST DCOM1 JYES 1559 001525 554040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 JF101527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO					SKIPA TAC1, JOBEXM(JDAT)	INOT SPECIFIED, USE LAST OF E OR NEXT OF	ń.
1550 EXTERN CHKMED 1551 001522 260140 000441' PUSHJ PDP,CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1552 IF 1552 IF IF VESR-MODE WRITE PROTECT (UWP) 1553 IF IF VESR, AND SET MEDDLE FOR THIS USER IF 1554 IF VESR, AND SET MEDDLE FOR THIS USER ISO HE CANNOT TURN UWP OFF 1555 ISO VESR VESR IN USER ACS 1557 001524 254000 001531' JRST DCOM1 JYES 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1561 001527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO		1521 25	54000 0021		JRST COMERA:	JILLEGAL CHARACTER	*
1551 Ø01522 26014Ø Ø00441' PUSHJ PDP,CHKMED ICHECK TO SEE IF HIGH SEG IS SHARABLE 1552 IF YES, SET USER-MODE WRITE PROTECT (UWP) IF OR THIS USER, AND SET MEDDLE FOR THIS USE 1554 IF OR THIS USER, AND SET MEDDLE FOR THIS USE 1555 SO HE CANNOT TURN UWP OFF 1556 001523 606100 777760 1556 001523 606100 777760 TRNN TAC1,777760 1557 001524 254000 001531' JRST DCOM1 JYES 1558 001525 554040 000007 HLRZ TAC,PROG IGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1561 001527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO				IFN FT2			
1552 I F YES, SET USER-MODE WRITE PROTECT (UWP) 1553 I F YES, SET USER-MODE WRITE PROTECT (UWP) 1554 I FOR THIS USER, AND SET MEDDLE FOR THIS USE 1555 SO HE CANNOT TURN UWP OFF 1556 001523 606100 777760 1557 001524 254000 001531' JRST DCOM1 1558 001525 554040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1561 001527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO							
1553 , IP 15, SET 052R-MODE WRITE PROTECT (0WP) 1554 , FOR THIS USER, AND SET MEDDLE FOR THIS USER 1555 , SO HE CANNOT TURN UWP OFF 1556 001523 606100 777760 1557 001524 254000 001531' JRST DCOM1 1558 001525 554040 000007 HLRZ TAC,PROG ; GET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1561 001527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO		1522 20	60140 000	441'	PUSHJ PDP,CHKMED	ICHECK TO SEE IF HIGH SEG IS SHARABLE	
1993 j for this user, and set meddle for this use 1554 ; So he cannot turn uwp off 1555 > 1556 001523 606100 777760 trnn tac1,777760 ; In user acs 1557 001524 254000 001531' JRST DCOM1 jYes 1558 001525 554040 000007 HLRZ TAC,PROG ; GET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 ; FROM IO IN JOB DATA AREA? ; JN BOUNDS? ; SO HE CANNOT ; NO						IF YES, SET USER-MODE WRITE PROTECT (U)	WP) ON
1555 > TRNN TAC1,777760 JIN USER ACS 1556 001523 606100 777760 TRNN TAC1,777760 JIN USER ACS 1557 001524 254000 001531' JRST DCOM1 JYES 1558 001525 554040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPFI JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560						J FOR THIS USER, AND SET MEDDLE FOR THIS	USER
1556 001523 606100 777760 TRNN TAC1,777760 JIN USER ACS 1557 001524 254000 001531' JRST DCOM1 JYES 1558 001525 554040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 JFROM IO IN JOB DATA AREA? JS61 001527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO						I SO HE CANNOT TURN UWP OFF	
1557 001524 254000 001531' JRST DCOM1 JYES 1558 001525 554040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 JFROM IO IN JOB DATA AREA? JS61 JFROM IO IN JOB DATA AREA? 1562 001530 254000 001545' JRST DCOMA JNO			a	•			i
1558 001525 554040 000007 HLRZ TAC,PROG JGET PROTECTION 1559 001526 303100 000000 CAILE TAC1,JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 JFROM IO IN JOB DATA AREA? JS61 01527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO							
1559 001526 303100 000000 CAILE TAC1, JOBPF1 JNO, GREATER THAN HIGHEST LOC, PROTECTED 1560 J FROM IO IN JOB DATA AREA? 1561 001527 313100 000001 CAMLE TAC1, TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JNO							
1560 JFROM IO IN JOB DATA AREA? 1561 001527 313100 000001 CAMLE TAC1,TAC JIN BOUNDS? 1562 001530 254000 001545' JRST DCOMA JND							
1561 001527 313100 000001 CAMLE TAC1, TAC / IN BOUNDS? 1562 001530 254000 001545' JRST DCOMA IND		1920 36	00100 0000	000	CAILE TAC1, JOBPFI	INO, GREATER THAN HIGHEST LOC, PROTECTED	1 1
1562 ØØ1530 254000 ØØ1545' JRST DCOMA INO		+ 5 7 7 7 4	11444 000	0 Å 1			
JUNEOR FOR AC REFERENCE			00140 0015				
JULI FOR ALLOUATION						ISET FOR RELOCATION	
1565 001533 202020 000002 MOVEM IOS, @TAC1 1566 001534 263140 000000 POPL PDP.							
1566 Ø01534 263140 Ø00000 POPJ PDP, 1567		1934 20	00140 0000	שמש	PUPJ PDP,		
156/							

COMCON	- COMMAN /RCC Ø3		R AND SAV	VEGET RO	UTINES - V433 MACRO.V	/36 19:02 4-JUN-69 PAGE 55
1569	ØØ1535	621100	777777	DEAT:	TLZ TAC1,-1	ICLEAR LH IN CASE THIS IS A SUCCESSIVE E WITH NO ARG
157Ø	001536	542107	001520'		HRRM TAC1, JOBEXM(JDAT)	ISTORE FOR NEXT TIME, DO NOT TOUCH LH(D OR E LAST)
1571						; YES, WAS JOB STOPPED IN USER MODE?
1572	001537	301100	000020		CAIL TAC1,20	JIS IT AN AC?
1573	001540	26314Ø	000000		POPJ PDP,	INO
1574	001541	200047	000000		MOVE TAC, JOBPC(JDAT)	
1575	001542	603040	010000		TLNE TAC,USRMOD	JUSER MODE?
1576	001543	271100	000020		ADDI TAC1,20	JYES USER ACS ARE AT 20 INSTEAD OF 0
1577	001544	263140	000000		POPJ PDP,	
1578						
1579	001545			DCOMA:		
158Ø				IFN FT2	RELIC	
1581					EXTERN HGHDEP	
1582	001545	260140	000000		PUSHJ PDP,HGHDEP	IIS IT IN BOUNDS AND ALLOWED IN HIGH SEG?
1583	001546	254000	ØØ155Ø'		JRST ECOMA	IND, PRINT "OUT OF BOUNDS"
1584	001547	263140	666666		POPJ PDP,	IYES, IOS DEPOSITED, AND JOBEXM UPDATED
1585				>		
1586	ØØ155Ø	265040	002015	ECOMA:	JSP TAC, ERRMES JOUT OF	BOUNDS
1587	ØØ1551	476532	420236		ASCIZ /OUT OF BOUNDS	
	001552	431010	247652			
1588	001553	472112	306424	1		
	001554	000000	000000			
1589				>		

				_					
1590				IFN FTL					
1591								TES TO OCTN, IF TYPED FROM	
1592), OTHERWISE ILLEGAL S OUT RH OF STATES, LEGAL FO	
1593				1"SCHED	OFF. MIL	H NU ANGUME	NI ITPE	S UUT RH UP STATES, LEGAL FU	ALL.
1594									
1595					EXIERN	DEVOPRISTATE	ES,UCIP	NT	
1596		0/0/40	8404371	SKEDUL .	BURNI			GET THE ARGUMENT IF ANY	
1597 1598	001555	260140 254000	0020/3 001565	SKEDUL:		PDP,OCTIN Sked1			
	001556	254000	002000		JRST JRST	COMERA		NO ARGUMENT BAD SYNTAX IN OCTAL NUMBER	
1599 1600	001557 001560	200046	0000000		MOVE		100001) JAN ARGUMENT, IS THIS THE	
1600	001560 001561	312040	0000000		CAME	TAC, DEVOPR	UE VUAT	J JAN ANGUMENTA IS THIS THE	UFRI :
			0000000 002001'		JRST	COMERR		NO. THIS IS ILLEGAL, THEN.	
1602 1603	ØØ1562 ØØ1563	254000 542100	0000000		HRRM	TAC1,STATES		YES. STORE ARGUMENT IN RH OF	STATES
1603	001563	263140	0000000		POPJ	PDP 0		RETURN	STATE,S
1605	001004	200140	000000		PUFJ	PUP #0		REIURN	
1606	001565	550040	0015471	SKED1	HRRZ	TAC.STATES		SCHEDULE WITH NO ARGUMENTS.	
1607	001565	260140	001500	SKEDI	PUSHJ	PDP, OCTPNT		PRINT RH OF STATES.	
1608	001567	254000	002016		JRST	CRLF		AND RETURN WITH A CRLF	1
1609	101001	234000	002010	>	JNOT	UNET	,	AND RETORN WITH A DREP	
1610					NOR NÓ			RE BREAK CHAR COMMAND	
1611								MAND(O IN COMMAND TABLE)	
1612						Eine Ant on			
1613									
1614	001570			CBLANK:					
1615	001010			IFE FIT	TYSER.				
1616					LDB	TEM, TAC	1	GET BREAK CHARACTER	
1617					CAIE	TEM.15		IS IT A CR	
1618				>	04.2		,		
1619				IFN FTT	TYSER.C				
1620	ØØ157Ø	302400	000012	1.00	CAIE	TEM, 12		WAS BREAK A LF	
1621				>	0412		•		
1622	001571	306400	000073		CAIN TE	M . " ; "	1	NO, IS IT SENI COLON(MONITOR	COMMENT
1623	001572	263140	000000		POPJ PD			YES, IGNORE	
1624						-		FALL IN UNKNOWN COMMAND	Ť
1625							•		
1626				COMMAN	D NOT IN	COMMAND DIF	RECTORY		
1627									
1628		254020	002001'			-		ND ? TO WHAT HE TYPED IN	

LUMCUN		JUN 69	K ANU JA	VEGEN RU	UTINES - V435 MACKO,	V36 19102 4-JUN-69 PAGE 57
1629				IEN ETE	INISH, <	
1630						EASE AND DEASSIGNS DEVICE
1631				JOB ML	ST HAVE CORE	
1632						
1633					EXTERNAL USRJDA, PUUDAC.	, JOB, USRHCU, JOBFDV, SYSTAP
1634	001574	260140	0017231	CFINI	PUSHJ PDP,CTEXT1	JGET DEVICE NAME
1635	001575	322100	0020341		JUMPE TAC1, NOTENF	JGET DEVICE NAME JNOT ENOUGH ARG, IF NONE JSEARCH FOR SIXBIT DEVICE NAME JHERE ON CONTROL C ON SYSTEM TAPE USER J DO A FINISH SYS COMMAND FOR HIM
1636	001576	334040	000002		SKIPA TAC, TAC1	ISEARCH FOR SIXBIT DEVICE NAME
1637	001577	200040	000705'	CFINSI	MOVE TAC, SYSTAP	HERE ON CONTROL C ON SYSTEM TAPE USER
1638						; DO A FINISH SYS COMMAND FOR HIM
1639	001600	260 <u>1</u> 40	001435'		PUSHJ PDP,DEVSRC	
1640	001601	254000	0007701		JRST NOTDEV	
1641	001602	552307	001100'			AT) ISTORE DDB ADR. IN JOB DATA AREA
1642	001603	200303	777776		MOVE DEVDAT,-2(PDP)	
1643	001604	265100	001057'		JSP TAC1,MSTART	SETUP MONITOR JOB AND RETURN
1644						I RETURN HERE AT UUO LEVEL WHEN SCHEDULE
1645	001605	265040				ISETUP ACS, PROG, JDAT, PDP
1646	001606	200500	001070'			HIGHEST USER ID CHANNEL IN USE
1647	001607	550312	ØØ1Ø71'	FDV1:		N) JGET NEXT DEVICE
1648	001610	205600	071000		MOVSI UU0,071000	ISETUP RELEASE UUO
1649	001611	137500	001006'		DPB UCHN, PUUOAC	JWITH CHANNEL NO.
1650	001612	261140	000012		PUSH PDP,UCHN	
1651	001613	316307	001602'			T) IS THIS DEV. THE ONE TO RELEASE
1652	001614	256000	000014			IYES, RELEASE IT(AND CLOSE)
1653	001615	262140	000012		POP PDP,UCHN	
1654	001616	365500	001607'		SOJGE UCHN,FDV1	IFINISHED?
1655	001617	200200	001101'		MOVE ITEM, JOB	
1656	001620	200307			MOVE DEVDAT, JOBEDV (JDA'	
1657	001621	260140			PUSHJ PDP,DEASG	IDEASSIGN DEVICE
1658	001622	255000			JFCL	IGNORE IF NOT ASSIGNED BY CONSOLE
1659	ØØ1623	254000	ØØ1107'		JRST ESTOP	ISTOP JOB SO HE CANNOT CONTINUE
1660				>		

1661 1662 1663				IFN FTT ;"Resout		LABLE DEVICES AND FREE BLOCKS ON THE DISK
1664				EXTERNAL	DEVLST	
1666	001624			FREDEV:		
1667	001024			IFN	FTDISK, <	
1668				EXTERNAL		,WLBIT,SENTSZ,NUMBIT
1669						
1670		430040			XOR TAC, TAC	INITIALIZE COUNTER
	001625	574600 213000	0000000 000014		HLRE T2.SATXWD MOVNS T2	SET INDEX WITH NUMBER OF SAT BLOCKS IN EXISTENC
		541540			HRRI T1, SATENT	IGET SATENT ENTRY POINTER
1674	001630	550113	000000	L0P05:		IGET VALUE
		602100			TRNE TAC1, WLBIT	IIS THIS SPACE WRITE PROTECTED?
	001632		001635'		JRST LOP06	IYES, NO FREE BLOCKS IN THIS SAT BLOCK.
1677 1678	001633 001634		0000000 0000002		ADDI TAC,NUMBIT SUB TAC,TAC1	;NO, ADD THE FOLLOWING QUANTITY INTO THE ; running total: (total blocks in this sat
1679	01034	2/9090	000002		SUB TROJERCE	; BLOCK) - (BLOCKS ALREADY IN USE).
	001635	27154Ø	000000	LOP06;	ADDI T1, SENTSZ	IBUMP POINTER
			001630'		SOJN T2,LOPØ5	IDECREMENT INDEX
1682			001430'		PUSHJ PDP, RADX10	ICONVERT TO DECIMAL
1683 1684		260140 271010	ØØ2Ø25' 246226		PUSHJ PDP, INLMES ASCI7 /. BLKS/	\$PRINT
1004	001642				ASCIP / DERS/	
1685	001042	52.000		>		
1686						
			000652'		HLRZ T, DEVLST	IGET DDB POINTER
1688		201700		00041	MOVEI AC2,0 Move t1,devmod(t)	SET DEVICE NAME Ø FOR FIRST COMPARE
		200552 606540		LOP01.	TRNN T1,ASSCON!ASSPRG	
		603540			TLNE T1, DVTTY!DVDSK	INO, IS IT A TTY OR DSK?
1692		254000	0016621		JRST LOP02	IYES DO NOT PRINT
1693				IFE FTD		
1694					JUMPE AC2,LOPØ1B	SUPPRESS LEADING COMMA IF NO DISK
1695	001651	260140	002025'	>	PUSHJ PDP, INLMES	PRINT , (INSTEAD OF CRLF SO WILL FIT IN 1 BUFFER
1697		2600000	0000000		ASCIZ ///	PROTOT FRENCHER OF OREF OF WILL FIT IN 1 ODEFEN
1698	001653			LOPØ18:	MOVS AC1, DEVNAM(T)	JGET DEVICE NAME
1699 1700	001654	510100	000015		HLLZ TAC1, AC1	ASSUME SAME TYPE AS LAST ONE, PRINT ONLY RH OF NAME (UNIT NUMBER)
	001455	306715	aaaaaa		CAIN AC2,0(AC1)	JIS IT REALLY THE SAME?
			001661'		JRST LOPØ1A	IYES. PRINT THE UNIT NUMBER.
		204100			MOVS TAC1, AC1	IND, MUST PRINT WHOLE NAME,
1704		550700			HRRZ AC2, AC1	; AND GET THE NEW DEVICE IN FLAG AC.
1705					PUSHJ PDP, PRNAME	JAS BEING FREE
1706 1707					HLRZ T,DEVSER(T) JUMPN T,LOPØ1	JGET NEXT DEVICE IN CHAIN JIS THERE ONE?
1708	001664	326500 254000	001045		JRST CRLF	INO, DONE, PRINT CR, LF AND THEN POPJ
1709	001004	227070	~07010	>		Mot point futur aut Primus und rold 1

1710				FXTERNA	L CPOPJ	STUSER	
1711				ROUTIN	E TO CH	ECK FOR ACTIVE D	PEVICES
1712				INEVER	GET HER	E DURING SWAP IN	
1713				;SINCE	COMMAND	TABLE SHOULD HA	VE NOTRAN BIT ON
1714							
1715	001665	316200	000455'	RUNCHK:		TEM, STUSER	ISYSTEM TAPE USER?
1716			001677		JRST D	LYCM1	IYES, DELAY, BUT DO NOT STOP JOB
1717		322340		ACTCHK:		ROG, ACTCH1	IDDES JOB HAVE CORE IN MEMORY?
1/18 1719		260140				PDP, ANYACT	IYES, ARE DEVICES ACTIVE?
	ØØ1671 ØØ1672	254000	ØØ1676'		JRST D	YCM	IYES, DELAY COMMAND,
	001672 001673	200103	777774	ACTCH1:	MOVE T	AC1,-1(PDP)	JRESTORE COMMAND DISPATCH ADDRESS
		200303			MOVE DI	EVDAT, -2(PDP)	IRESTORE TTY DDB ADDRESS
			000001		MUVE I	JBISIS([IEM)	IRESTORE JOB STATUS
1724	0010/0	200140	CODDOL	CONTER	FUFJ F	JF,CUMØ	
1725				ROUTIN		AY A COMMAND	
1726				1.00114		AT A COMMAND	
1727				DELAYS	COMMAN		WHEN JOB IN CORE MEMORY
1728				IAND CA	USES JOE	TO BE EXECUTED	IN(COMMAND WAIT BIT IS SET IN JBTSTS)
1729				JAND PO	PS LEVEL	UP ONE.	INCOMMEND WATE DIE 13 SCI IN UBISISI
1730							
1731				EXTERNAL	_ TTYCM,	LINSAV	
1732							
1733	ØØ1676	260140	nønønø	DLYCM:	PUSHJ	PDP, DLYCOM	JSET COMMAND WAIT BIT IN JOB STATUS AND PUT
1734 1735							JOB IN COMMAND WAIT QUEUE
1736							; SO JOB IS NOT RUNNABLE ANY MORE
1737				TOTEFOR	E TU DEL	AY A CUMMANU IF	A SWAP OUT OR IN IS IN PROGRESS
738				PREDUTER		ELAYING COMMAND	B IS NOT MADE TO BE SWAPPED IN
739				TAPE US	20 FUR 1. 200 TVDC	S +C (HALT COMMAND	IF STSTEM
740						S IC (HALI CUMM.	ANU)
	001677	262140	000001	DLYCM1:	POP	PDP, TAC	
			000002		POP	PDP, TAC1	
	001701	262140	000002		POP	POP, TAC1	
	001702	261140	ØØ1675'		PUSH	PDP, CONTC1	
	001703	200170	0000000		MOVE	TAC1, LINSAV	
746	001704	254000	000000		JRST	TTYCM	

COMCON		ND DECODE 5 JUN 69	R AND SA	VEGET RO	UTINES - V433	MACRO,V3	6 19:02	4-JUN-69	PAGE	60
1747 1748 1749 1750 1751 1752 1753 1754 1755				; C A L L ; ; ;	ISK, DEVICE CHAIN F MOVE ITEM, JOB PUSHJ PDP, STOP CAN'T STOP RET OK TO STOP RET L DSKDDB, DSKFGS	NO CK URN URN	TH COUNTS	ON		
1756 1757 1758 1759 1760 1761 1762 1763 1764 1765		201300 205100 135040 302201 254000 612106 254000 554306 205040	000000 001714 000002 000757	STOPCK: Stopn:	MOVEI DEVDAT,D MOVSI TAC1,DSK LDB TAC,PJOBN CAIE ITEM,(TAC JRST STOPC TDNE TAC1,DEVII JRST CPOPJ HLPZ DEVDAT,DE' MOVSI TAC,4463	SKDDB FGS) OS(DEVNAT) VSER(DEVDA	INO I IYES. DEL	YES. FLAG		
1766 1767 1768 1769	001716 001717 001720	316046 254000 254000	000000 001707' 000000	>	CAMN TAC, DEVNA JRST STOPD JRST CPOPJ1		;ок то ст	0P		

1. W. S. [No. 1.1.5] Strategies and Alford Market Market and State on the Mathematical Alford and a second strategies.

COMCON		ND DECODE 5 Jun 69	ER AND SA	VEGET RO	UTINES	- v433	MACRO.V3	36 19102 4-JUN-69 PAGE 70	
1770				SUBTTL	COMCS	S - COMMON	COMMAND	SUBROUTINES	
1771 1772									
1773						LINE (SIXE		MERIC STRING	
1774								O PREVIOUS CHAR.	
1775				I		PDP, CTEX		U FREVIOUS CHAR,	
1776								TIFIED IN AC TAC1	
1777							201 0001		
1778				INTERNA	L CTEX	T			
1779				INTERNA	L CTEX	T1			
1780									
1781				T=BUFPN				JTEMPORARY AC'S	
1782			000013	T1=8UFW	RD				
1783			000014	T2=UU0					
1784 1785		0/11/0	8443544						
1786	001721	260140 334000		CTEXT:		PUP, SKI	PS	ICALL HERE IF AT START OF LINE	
1787	001/22	334000	000000		SKIPA				
1788	ØØ1723	260140	0017571	CTEVT1.		PDP, SKIPS	4	ISKIP LEAD SPACES, TABS, NULLS AND CLEAR T	
1789	001/20	200140	001/0/	UILAI2.	roona	I DE FORTI D		JONNOT RETURN IF CR WAS PREVIOUS BREAK	ACT
1790	001724	200500	0030631		MOVE	LEPOINT 6) DO NOT REIDRN IF OR WAS FREVIOUS BREAK	
1791				IFE FTT					
1792				· ·	LDB	TEM, TAC			
1793					JRST (CTEX1			
1794				CTEXØ:	ILDB	TEM, TAC			
1795				>					
1796				IFN FTT					
1797			_	EXTERN					
1798		135405	000000		LDB		R(DAT)	IGET LAST CHAR.	
1799	001726	254000	001730'		JRST	CTEX1			
1800	001727	260140	000227	CTEXØI	PUSHJ	PDP,GET	CHR	ROUTINE IN SCNSER TO PICK UP CHAR,	
1801				>					
1802 1803	001730	260140	ØØ1735'	CIEVAN		PDP, CTEX			
1804	001730	640400	000040	CIENT.	TRC TE			IIS IT ALPHANUMERIC	
1805	001732	603500	770000			т,77000		JCONVERT TO SIXBIT JSIX CHARS YET?	
1806	001733	136400	000012			TEM,T			
1807	001734	254000	0017271		JRST (JLOOP FO		

COMCON	- COMMAN					v433	MACRO, V3	6 19:02	4-JUN-69	PAGE 7	1
	COMCSS	- COMMON	COMMAND	SUBROUT	INES	1					
1808				SCAN F		NUMERIC (- EM			
1809	001735	303400	000172	CTEX:	CAILE	TEM,"2"			THAN LC	20	
1810	001736	254000	001747	0.011	JRST	CTEXA			T SIXBIT.	21	
1811	001737	301400	000141		CAIL	TEM, "A"			ASE LETTE	82	
1812	001740	620400	000040		TRZ	TEM,40			KE UPPER		
1813	001741	301400	0000000		CAIL TE			1.001			
1814	001742	303400	000132			EM, "2"	LETTERS	ARELAR	GER THAN	NOS.	
1815	001743	254000	001747'		JRST CT		INEITHER		CE: Man		
1816	001744	303400	000071		CAILE T	'EM, "9"					
1817	001745	301400	000101		CAIL TE	M, "A"					
1818	001746	263140	000000		POPJ PD	P,	ILETTER	OR NUMBER	R RETURN		
1819				CTEXA:	IFE FTT	TYSER, <					
1820					POP	PDP, T1	REDUCE	PDP BY 1	LEVEL		
1821					POPJ	PDP,	JAND RET	URN			
1822				>							
1823				IFN FTT	TYSER.<						
1824	001747	306400	000072		CAIN	TEM,":"		IDEVICE (NAME?		
1825	@@1750	260140	ØØ1727'		PUSHJ	PDP,GET(IYES. SK	IP COLON		
1826	001751	302400	000003		CAIE	TEM,3	CONTROL	C ?			
1827	001752	254000	001503'		JRST	TPOPJ	1N0 8FT	URN ONE I			
1828	001753	205100	504154	CTXCNC:			XBIT /4A		MAKE PHO		COMMAND
1829	001754	201400	000012		MOVEI			FOR TER		TAL!	U GHIN KIND
183Ø	001755	254000	001752'		JRST	трорј	JAND RET	URN UP A	LEVEL		

COMCON	- COMMAN COMCSS	ND DECOD - COMMO	ER AND SA N COMMAND	VEGET RO Subrout	UTINES · INES	- v433	MACRO,V36 19:02 4-JUN-69 PAGE 72
1832 1833 1834 1835 1836 1837 1838				JALSO C JDOES N JCHAR,	LEARS TA IOT RETUR IS CR(IE MOVE TA	AC1 RN IF PRE E POPS Su	DING SPACES, TABS, AND NULLS VIOUS CHAR, OR NEXT NON-SPACING Ibroutine level up 1 on return) ODINTER TO PREVIOUS BREAK CHAR, S1
1839 1840 1841					L SKIPS1 TYSER.<	, SKIPS	
1842 1843 1844 1845				SKIPS1: SKIPS:	MOVEI T LDB TEM CAIN TE	, TAC M, 15	ICLEAR TAC1 Iwas preceding break a cr?
1846 1847 1848 1849				SKIPSA:	ILDB	TEM, TAC	
1850 1851 1852 1853					CAIE TE CAIN TE JRST SK CAIN TE	M," " M, 11 IPSA	JSPACE?
1854 1855 1856 1857				>	POP PDP POPJ PD	,† P,	IYES, POP SUR, LEVEL UP ONE
1858 1859			0017501	SKIPS:	PUSHJ	EXTERNAL PDP,GET	L GETCHR,SPCHEK,BREAKB,TAKR CHR JGET FIRST CHAR ON LINE
1860 1861 1862	001761	135425 306420	000000 001725 000015		MOVEI LDB CAIN	TAC1,0 TEM,TAKI TEM,15	JFOR CTEXT, DECIN R(DAT) JIN CASE TEM CLOBBERED JSKIP TO LE IE CR
1863 1864 1865 1866	01762 01763 01764 001764 001765	322470	001756' 001773' 000223' 001770'	SKIPSA:	PUSHJ JUMPE PUSHJ JRST	PDP,GET(TEM,SKIF PDP,SPC, SKIPS2	HEK ISPECIAL?
1867 1868 1869 1870		503040 254020 307420 254020	001225 001773 009040	SKIPS2:	TLNE JRST CAIG	TAC,BREA Skips3 Tem,40	AKB IBPEAK?(END OF LINE) IYES. POP UP RETURN ISPACE OR CONTROL CHAR?
1871 1872 1873	901772 901773 901774	263140 306400 254220	000023 001753	SKIPSJI	POPJ CAIN JRST	CTXCNC	INO. RETURN I+C? IHANDLE IT
1874 1875 1876		201420 254020	000012 001755	>	MOVEI	TEM,12	FOR BREAK CONSISTENCY RETURN ONE LEVEL UP

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			R AND SA I Command			V433 MACRO),V36 19:	Ø2 4-JUN-69 PAGE 73	
1877								ING AND SET AS OUTPUT	
1878						TIN, RETURNS T			
1879							CR TO LAS	T CHAR, IN INPUT STRING	
1880				1	PUSHJ P	DP, COMERA			
1881 1882				INTERNA		004500			
1883				INTERNA	L COMERA	JUMERF			
1884	001777	262140	000012	COMERPI		. T	1 REMO	VE SUB. RETURN BEFORE CALLIN	COMER.
1885	002000	2.02110	CDODIE			TYSER, < IBP		VE SUDI HEIGHN BEFORE UREEIN	S CONCIA
1886	002000	260140	ØØ1762'			TYSER < PUSHJ		ETCHR> ;MOVE UP, A CH	
1887					-				
1888									
1889							ACTER IN	INPUT STRING BY "?"	
1890					T AS OUT				
1891 1892							R TO LAS	T CHAR, IN INPUT STRING	
1892				;	PUSHJ P	DP: COMERR			
1894				INTERNA					
1895				THEFT	C DOMENN				,
1896									
1897	<i>0</i> 02001			COMERK:					
1898				IFN FTT					
1899				EXTERN	OUTCHS,T	RESCN, TITAKR, S	ETBFIJTI	SYNC	
1920		000574	a.a						
1901 1902	CØ2001 CØ2002	200506 260140	000147 • 000000		MOVE PUSHJ	PDP.TRESCN		SAVE POSITION IN SCAN	
1903	002002	260140		COMERL:		PDP, GETCHR		UP TO START OF COMMAND A CHAR FROM COMMAND	
1904	202004	316526	002001'	Conche.	CAMN	TITAKROEVD		JPASS BAD CHAR YET?	
1905	002005	254000	002010		JRST	COMER1 JYES		TROS DED CHAR TETT	
1906	002006	260140	NUCOUD		PUSHJ	PDP, OUTCHS	INO.	TYPE CHAR.	
1907	ØØ2007	326420	NØ2ØØ3'		JUMPN	TEM, COMERL	1L00P	IF NOT OUT OF CHARACTERS	
1928									
1929	002010	260140		COMER1:	PUSHJ	PDP,SETBFI		ICLEAR ANY MORE TYPEIN	1
1910		350026	000151'		AOS			WILL BE SOS-ED AT COMRET	
1911	002012	201400	200077		MOVEI	TEM,"?"	IAPPE	ND ? TO ERRONEOUS WORD	
1912	002013	262140	002006	、	PUSHJ	PDP,OUTCHS			
1913 1914				>					
1915				IFE FIT	MOVE	DAT, TAC			
1916					MOVEI	T,"?"	:5708	E ? ON TOP OF BREAK CHAR.	
1917					NPR	T.DAT	, , , , , , ,	L & UN FUR OF DICAN UMAN.	
1918				>					

	COMCSS	- COMMON	COMMAND	SUBROUTI	NES	V433 MACRO	
1920 1921				;ROUTINE ;SAME CA		NT A COMMAND E	RROR MESSAGE
1922				-			
1923 1924				INTERNAL	ERRMES		
1925 1926 1927	002015	634200	000004	ERRMES	TDZA IT	EM,ITEM	; COMERR SKIPS THIS ROUT.(SEE ABOVE) ICLEAR JOB NUMBER TO INDICATE ERROR ; SKIP INTO CONMES ROUTINE
1928 1929 1930 1931				ICALL:	MOVE DA	NT CARRIAGE RE T,BYTE POINTE DP,CRLF	TURN-LINE-FEED TO OUTPUT
1932 1933				INTERNAL			
1934 1935 1936 1937 1938	02016	201040	0030641		MOVEI T	AC, CASCII /	; COMERR SKIPS TO HERE(SEE ABOVE)
1939 1940 1941 1942 1943 1943 1944 1945 1946 1947				; CALL: ; ; ; string ; conmes	MOVE DA MOVEI T PUSHJ P TERMIN DOES N - SAME	T, BYTE POINTE AC, ADDRESS (DP, CONMES IATED BY NULL OT START TTY CALLING SEGOUP	STRING TO CONSOLE OUTPUT BUFFER R TO LAST OUTPUT CHARACTER F ASCII MESSAGE NGE AS CONMESFEXCEPT LH IS BYTE POINTER
1948				EXTERNAL			
1949 1950 1951 (002017	505040	440700	CONMES:	HRLI TA	C,440709	J ERRMES SKIPS TO HERE Form Asciz byte pointer
	002021 002022	261140 134493 322400	000000		ILDB TE JUMPE T	M, (PDP) EM, TPOPJ	ISAVE BYTÉ POINTER IGET NEXT CHAR, IS IT NULL?(IF YES, DO POP TAC, POPJ) TYPE OUT INSTRUCTION
1955 (1956 (1957 1958				CONOUT: IFN FTTT EXTERN O	YSER,<	, AG FUR IME	JEXECUTED FROM REST OF COMCSS TO OUTPUT CHA
1959 (1960	702023	260140	002013'	>	PUSHJ	PDP,OUTCHS	:NO, STORE TTY OUTPUT BUFFER

	COMCSS	- CUMMUN	COMMAND	SOBKOOL	INES		
1965					E TO PRINT INLINE ASC	17 MESSAGE	
1966				;CALL:	PUSHJ PDP, INLMES		
1967				1	ASCIZ /THE MESSAGE/		
1968				TRETURN	TO NEXT LOC AFTER ME	SSAGE	
1969					THE NEC		
197Ø 1971				INTERNA	L INLMES		
1972	002025	262140	000001	TNEMEST	POP PDP,TAC	SETUP PRINT ADRESS FOR CONMES	
1973	002026	260140	002017	THE REGI	PUSHJ PDP, CONMES	SELUT FAIRT ADAEUG FER COURLE	
1974	002027	254001	000001		JRST 1(TAC)	IRETURN TO NEXT LOC AFTER MESSAGE	
1975					•••••		
1976				;ROUTIN	E TO APPEND ? TO ERRO	DR MESSAGE	
1977				;CALL	PUSHJ PDP,PROM		
1978				3	RETURN		
1979							
1980				INTERNA	LPRGM		
1981 1982	002030	201400	000077	PROMI	MOVEL TEM,"?"		
1982	002030	201400	0000//		TYSER.<		
1700				TO A LOT	TISER .		
1984				EXTERN	OUTCHS		
1985	002031	254000	0020231		JRST OUTCHS		
1986				>			
1987				IFE FTT	TYSER, <		
1988					IDPB TEM,DAT		
1989					POPJ PDP,		
199Ø 1991		201010	0070/51		MOVEL TAC, LASCIZ /	(1	
	002032	201040	003065'	PRSPLI	MUVEL TALILASULE /	/]	

									,		
COMCON	- COMMAN COMCSS	D DECODE - COMMON	ER AND SA N COMMAND	VEGET RO SUBROUT	UTINES - INES	V433	MACRO,V30	19:02	4-JUN-69	PAGE	76
1993											
1994											
1995				ROUTIN	E TO PRIN	T "TOO F	EW ARGUME	NTS			
1996					MOVE DAT						
1997				;	PUSHJ PDF						
1998											
1999				INTERNA	L NOTENF						
2000											
2001	002034	265Ø4Ø	ØØ2Ø15'	NOTENF:	JSP TAC.E	ERRMES					
2002											
2003	002035	522371	720214	ASCIZ /	TOO FEW AF	RGUMENTS					
	ØØ2Ø36	426564	040644								
		436531									
2004	002040	522461	505000	/							
2005											
2006					E TO PRINT		00				
2007				;CALL:	PUSHJ PDP	PRPER					
2008											
2009 2010				INTERNAL	L PRPER						
-						_					
2011 2012	ØØ2Ø41 ØØ2042	265040 270000		PRPERI	JSP TAC.C						
2012	1102042	2100000	ØØØØØØ		ASCIZ /./	/					

2Ø13						
2014					E TO DEASSIGN A DEVICE	
2015				;CALL:	MOVE DEVDAT, DEVICE DA	TA BLOCK
2016				;	MOVE ITEM, JOB NUMBER	
2017				;	PUSHJ PDP, DEASG	
2018				;	ERROR NOT PREVIOUSLY A	SSIGNED
2019				1	OK RETURN WITH DEVICE	DEASSIGNED
2020						
2021				INTERNA		
2022				EXTERNA	L PJOBN,CPOPJ1,IPOPJ	
2023						
2024	002043	135500	ØØ1707'	DEASG:	LDB T, PJOBN	IWAS DEVICE ASSIGNED TO THIS JOB?
2025		312500			CAME T, ITEM	
2026	ØØ2Ø45		000000		POPJ PDP,	INO, RETURN
2027	ØØ2Ø46	261140	000004		PUSH PDP,ITEM	ISAVE JOB NUMBER
2028	ØØ2Ø47	205100	400000		MOVSI TAC1, OVDIRI	ICLEAR DIRECTORY IN CORE BIT
2029	@@2@50	413106	000024		ANDCAB TAC1, DEVMOD(DEV	DAT) ISET DEVICE CHARACTERISTICS FOR TE
2030			_			I AND ASGHGH
2031	002051	402006	000005		SETZM DEVLOG(DEVDAT)	ICLEAR LOGICAL NAME
2ø32	002052	602130	400000		TRNE TAC1, ASSCON	IS DEVICE ASSIGNED BY CONSOLE?
2033	002053	350003	777777		AOS -1(PDP)	IYES, DO OK RETURN
2034				IFN FT2	RELIK	
2035					EXTERN ASGHGH	
2036	002054	260140	000741'		PUSHJ PDP,ASGHGH	JIF DTA OR MTA, CLEAR ANY HIGH SEGMENT NAM
2037						; FROM THIS DEVICE SO NO NEW SHARING
2Ø38 2Ø39						J DEVMOD SETUP IN TAC1 ON CALL
2039 2040	000055	201400	100000	>		
2040			400000		MOVEL TAC1, ASSCON	SETUP ASSIGNED BE CONSOLE BIT FOR RELEAS
2041		260140	000000		PUSHJ PDP, RELEA6	ICLEAR JOB NO, IN DDB IF DDB NOT NEEDED
2042	V02051	254020	Ø000000		JRST IPOPJ	RESTORE JOB NUMBER AND RETURN
2043						
2044				ROUTINE	TO DEASSIGN ALL DEVICE	IS EXCEPT LOGICAL TTY
2045					MOVE ITEM, JOB NUMBER	
2040 2047				:	MUVE DEVDAT, AUR. OF DEV	ICE NOT TO BE DEASSIGNED
2047				:	PUSHJ PDP, DEASTY	
2040						
2049				TNEEDN		
2051					DEASAL DEASTY	
2052				EXTERNAL	L DEVEST	
2053	ØØ2Ø6Ø			DEASTY:		
2054		261140	ØØØØØA		PUSH POP, DEVOAT	LOLVE TTY BOD LODDEGA
2055	902061	5543%0	001643	OCADALI	HLRZ DEVDAT.DEVLST	ISAVE ITY UDH AUDRESS
2056	002062		0000000		CAIE DEVDAT, @(PDP)	ISEARCH ALL DDB'S
2057		260140	2020431		PUSHJ PDP, DEASG	TO THIS DEVICE NOT TO BE DEASSIGNED?
2058	002064	255000	002040		JFCL	IND, TRY TO DEASSIGN IT
2059		5543%6	000203		HLRZ DEVDAT, DEVSER(DEV	IIGNORE IF CAN'T
2060		326370	002062		JUMPN DEVDAT, DEA1	
		0000			JUSTIN DEVUALT FRAL	
2061	ØØ2Ø67	26214Ø	000006		POP PDP, DEVDAT	RESTORE TTY DDB ADDRESS

				SUBROUTINES	
2063					
2064				ROUTINE TO READ CONSOL	E AND CONVERT ANY RADIX NUMBER
2065				; CALL: MOVE TAC1, DES	IRED RADIX
2066 2067				MOVE TAC, BYTE	POINTER TO FIRST CHRACTER
2067				PUSHJ PDP, ANYR	
2069				ILLEGAL CHARACT	ETURN, TAC1=0
2070					ER RETURN
2071				ISCAN STOPS ON EIDST CO	JAC TAC1 CONTAINS NUMBER ,DASH,SPACE,OR TAB OR ILLEGAL CHAR,
2072				ISKIPS LEADING SPACES A	ND TADS
2073				JONTIO CENDING DENCED A	
2074				INTERNAL OCTIN, OCTIN1, D	FOIN, DECINI
2075				EXTERNAL CPOPJ1, CPOPJ2	COLUMN COLUT
2076					
2077			000012	C=BUFPNT	JCHARACTER AC
2078			000013	R=BUFWRD	IRADIX AC
2079					
2080				DECIN1:	
2081	002071	201540	000012	DECIN: MOVEL R,12	JDECIMAL INPUT
2082	002072	254000	002074	JEST ANYRIN	
2083	002073			007141	
2085	002073	201540	AAAAA	OCTIN1:	
2086	002073	201940	000010	ANYBING DUSUL DOD SKIDD	JOCTAL INPUT JSKIP LEADING SPACES, TABS, NULLS
2087	002074	200140	001/07	ANTRIN: PUSHJ PUP; SKIPS:	I ISKIP LEADING SPACES, TABS, NULLS
2088) DO NOT RETURN IF CR WAS PREVIOUS BREAK) OR THIS BREAK
2089				IFE FTTTYSER, < LDB	
2090	002075	305400	000175	OCT0: CAIGE TEM, 175	JALTMODES(175 OR 176)?
2091	002076	306400	000133	CAIN TEM, "["	INO, LEFT BRACKET(SO SPACE NOT REQ
2092				·····••	J BEFORE [P,P] IN ATT AND GET COMMANDS.
2093		254000		JRST CPOPJ2	IYES. SKIP RETURN
2094		302400		CAIE TEM,"-"	;DASH?
2095		307400		CAIG TEM,40	SPACE OR CONTROL CHAR?
2096			002077		IYES, ONLY LEGAL TERMINATORS
2097			000054	CAIE TEM,","	ICOMMA?
2098			000135	CAIN TEM,"]"	IRIGHT BRACKET?
2099			002102'	JRST CPOPJ2	IYES.
		275490	000060 001720'	JRST CPOPJ2 SUBI TEM,60 JUMPL TEM,CPOPJ1 CAML TEM, R JRST CPOPJ1 IMUL TAC1, R	
			000013	JUMPL IEM, CPOPJ1	JERROR IF NEG, REMOVE SUB, RETURN AND P
			002107	LAML IEM, R	JOR ,GE, RADIX
		220100		IMUL TAC1, R	JERROR, GREATER OR EQUAL TO RADIX
		270100		ADD TAC1.TEM	
2106		270100	000010		TEM, TAC JNEXT CHAR>
2107	002114	260140	0020031		PDP,GETCHR> INEXT CHAR
2108	002115	2540.00	0022751	JRST OCT2	BIJGETONICZI CHAR

2109					L FTLOGI	N		
2110				IFN FTL				
2111				JGET PR	OJECT-PR	OGRAMMER NUMBERS		
2112						C, INPUT BYTE POI	NTER	
2113				1	PUSHJ P	DP, PJPGNO		
2114 2115				;				
2115				I (AC2)L	H + PROJ	ECT NUMBER		
2117						RAMMER NUMBER O []'S TYPED		
2118						IS OPTIONAL		
2119					COLORE 1	10 OF TONAL		
2120								
2121				IFE FTT	TYSER.			
2122 2123				PJPGN0:		TAC1, TAC	SAVE INPUT BYTE POINTER IN CASE NO	
2124				PPØ:	IBP	TAC	JGET NEXT CHARACTER (2ND TIME THRU LOOP)	
2125					LDB	TEM, TAC	JGET CHAR WHICH STOPPED PREVIOUS FIELD SCA	١N
2126 2127				>			I (OR NEXT CHAR ON 2ND TIME THRU LOOP)	
2128				IFN FTT				
2129	002116	260140	ØØ1757'		PUSHJ	PDP, SK1PS1		
2130	002117			PJPGNO:	1 CONG	101 0011101		
2131				>				
2132		306400	000133		CAIN	TEM,"["	115 IT A "C" ?	
2133	002120		ØØ2126'		JRST	PP1	IYES, GET PROJECT-PROGRAMMER NUMBERS FROM	INST
2134	002121		000040		CAIE	TEM," "	IND, IS IT A SPACE ?	
2135	002122		000011		CAIN	TEM, 11	J OR A TAB ?	
2136 2137	ØØ2123 ØØ2124	254000 201700	002116' 000000		JRST	PPØ	IYES, KEEP LOOKING FOR "[",	
2138	002124	201/00	000000		MOVEI	AC2.Ø	JNEITHER SPACE NOR TAB, THUS RETURN A Ø ME J NO PROJECT-PROGRAMMER NUMBER ENCOUNTERED	
2139				IFE FIT	TYSER, <	MOVEM TAC1, TA		•
2140	002125	263140	ØØØØØØØ	•	POPJ	PDP,	JEXIT,	
2141		_						
2142	ØØ2126			PP1:				
2143	ØØ2126			IFN FTT		PUSHJ PDP,SKI	PS>	
2144	002127					DP,OCTIN	IGET FIRST ARG,-PROJ, NO.	
2145	002130	254000	001777'		JRST CO		IND ARG, GIVEN	
2146	002131	254000	ØØ1777'		JRST CO		ILLEGAL DECIMAL CHARACTER GIVEN	
2147	ØØ2132 ØØ2133		000002 0000054	1.5.4	HRL AC2		JENTER	
	002133 002134	302400 254000	000054 001777'	TLU FII	JRST			
		260140	0017561			COMERP PDP,SKIPS>		
	002135	260140	002073			DP,OCTIN	GET SECOND ARGPROG. NO.	
2152	002137	254000	ØØ1777'		JRST CON		JGET SECUND ARG, -PRUG, NO,	
2153	002140	254000	001777 •		JRST CO		2 1	
2154	002141	540700	000002		HRR AC2		SENTER	
2155	002142	260140	001757			DP, SKIPS1	ISKIP BLANKS	
	002143	306400	000135	_		1,"]"	IIS USUAL ENDING A "]"?	
2157				IFE FTT1	YSER, <i< td=""><td>BP TAC></td><td>IYES, SKIP IT</td><td></td></i<>	BP TAC>	IYES, SKIP IT	
	002144		002114'	IFN FTTT	YSER, CPU	JSHJ PDP,GETCHR>	IYES, SKIP IT SO FINAL J IS OPTIONAL	
2159 216Ø	002145	263140	000000	>	POPJ PDF	· ,	RETURN TO CALL	

			I COMMAND			R∩,V36 19:02 4-JUN-69 PAGE 80
2161				;ROUTIN	E TO PRINT TIME AS H	OURS, MINUTES, SECONDS, AND HUNDRETHS
2162				FORMAT	IS HHMM:SS.HH	
2163				CALL:	MOVE TAC, TIME IN JI	FFIES(60THS,50THS OR MILLISECONDS)
2164				1	MOVE DAT, OUTPUT TE>	T BYTE POINTER
2165				3	PUSHJ PDP, PRTIME	
2166						
2167				ISCALEI	NG IS DONE USING THE	FOLLOWING GLOBAL SYMBOLS DEFINED
2168				;ON THE	CONFIGURATION TAPE	(IOINI1)
2169				;THUS A	NY INSTALLATION MAY	HAVE ANY RATE CLOCK
2170						
2171				EXTERNA	L JIFMIN, JIFSEC, JIFS	602
2172						
2173				JJIFMIN	I=NO, OF JIFFIES(CLOC	K TICKS) PER MINUTE
2174				JIFSEC	=NO. OF JIFFIES PER	SECOND
2175				JIFSC2	=1/2*JIFSEC(USED FOR	ROUNDING)
2176						
2177				INTERNA	L PRTIME	
2178					_	_
2179				PRTIME	IDIVI TAC, JIFMIN	
2180		261140			PUSH PDP, TAC1	
2181	002150	322040	002162' 000074		JUMPE TAC, PR1 IDIVI TAC, +D60	ISUPRESS & HOURS IN MINUTES
2182					IDIVI 1AC.+D60	HOURS, MINUTES IN TAC, TAC1
2183		322040	002156		JUMPE TAC, PRØ	ISUPPRESS Ø HOURS
2184			001637		PUSHJ PDP, RADX10	
2185			0020251			PRINT "HHI" OR "HI"
2186 2187		350000 200040	000000 000002	D D A •	ASCIZ /:/ MOVE TAC,TAC1	IGET MINUTES
2188		260140	0022741		PUSHJ PDP,PRT2	IGET MINUTES
2189			002225		PUSHJ PDP, INLMES	PRIMI "MMIL"
2199 2190		350000			ASCIZ /:/	
2191		262140	000001	PR1:	POP PDP,TAC	RESTORE SECONDS(IN JIFFIES)
2192			001427		IDIVI TAC, JIFSEC	JIFFIES PER SECOND
2193			002153		PUSHJ POP,RADX10	IPRINT SECONDS
2194		260140	002041'		PUSHJ PDP, PRPER	
2195		200140			MOVE TAC. TAC1	INO OF JIFFIES(HUNDRETHS)
2196		221040	000144		IMULI TAC, D100	CONVERT TO HUNDRETHS
2197		231040			IDIVI TAC, JIFSEC	JUNITERT TO RUNDRETHS
2198		301100	602030			ROUND IF GREATER THAN HALF
2199		350000	000001		ADS TAC	ANAAND IN ANDRED HINNE DWEL

COMCON		D DECODEI - COMMON			UTINES - V433 Ines	MACRO, V36 19:02 4-JUN-69 PAGE 81
22Ø1	002174	231040	0021461	PRTIM1:	IDIVI TAC. JIFMIN	V I
2202	002175	231040	000074		IDIVI TAC. +D60	HOURS, MINUTES IN TAC, TAC1
2203	002176	260140	002204'		PUSHJ PDP, PRT2	
2204	002177	260140	0020251		PUSHJ PDP, INLMES	S JPRINT "HH:"
2205	002200	350000	000000		ASCIZ /1/	··· · ·
2206	002201	200040	000002		MOVE TAC, TAC1	
2207	002202	260140	002204'	PRT2LF:	PUSHJ PDP, PRT2	PRINT MM
2208	002203	254000	002016'	· · ·	JRST CRLF	
2209					•	
2210	002204	201400	000060	PRT2:	MOVEI TEM,"Ø"	
2211	002205	305040	000012		CAIGE TAC, +D10	
2212	002206	256000	0020231		XCT CONDUT	PUT LEADING Ø IF LESS THAT
2213	002207	254000	002164'		JRST RADX10	IPRINT REST OF NUMBER

215 ICALL: MOVE ITEM, HIGH OR LOW SEG NUMBER 216 ; PUSHJ PDP,PRT SEG 217 ; RETURN 218 ; CALLED AT CLOCK LEVEL FROM CORE (UUD ARG) COMMAND AND SEGCON 219 INTERN PRTSEG 220 INTERN PRTSEG 221 260140 002213' 222 RTTERN PCORS2 223 002210 260140 002207' 224 002212 254000 002207' JRST RADX10 225 002212 254000 002207' JRST RADX10 JPRINT DECIMAL 226 ; PUSHJ PDP,SEGS12 ; FADX10 JPRINT DECIMAL 226 ; PUSHJ PDP,SEGS12 ; RURN WITH SIZE IN K IN TACI 226 ; PUSHJ PDP,SEGS12 ; RURN WITH SIZE IN K IN TACI 231 ; RETERN IMGIN INTERN SEGS12 233 SEGS12: ; 234 002213 SEGS12: 235 002213 SEGS12: 236 002213 SEGS12: 237 ISTERN IMGIN ISIZE WHEN NEXT SWAPPED IN(IN K) 238 002213 SEGS12: 239 <th>214</th> <th></th> <th></th> <th></th> <th>1 DOUT IN</th> <th>- TO DDINE SIZE OF LOOP</th> <th>ALL DEPUTY (LAW OF LIVEL)</th>	214				1 DOUT IN	- TO DDINE SIZE OF LOOP	ALL DEPUTY (LAW OF LIVEL)
218 ICALLED AT CLOCK LEVEL FROM CORE (UUO ARG) COMMAND AND SEGCON 219 INTERN PRTSEG 220 INTERN PRTSEG 221 EXTERN PCORS2 222 260140 002213' PRTSEG: PUSHJ POP,SEGSIZ ITAC1=SIZE OF HIGH OR LOW SEG 223 002210 260140 000002 MOVE TAC,TAC1 IRADX10 WANT DEC. NO. IN TAC 224 002212 254000 002207' JRST RADX10 JPRINT DECIMAL 226 JROUTINE TO RETURN SIZE OF HIGH OR LOW SEG JCALL! MOVE ITEM,LOW OR HIGH SEG NUMBER JPSHJ POP,SEGSIZ 226 JROUTINE TO RETURN WITH SIZE IN K IN TAC1 INTERN SEGSIZ 230 INTERN SEGSIZ INTERN SEGSIZ 231 SEGSIZI INTERN SEGSIZ 232 JROUTINE TO RETURN WITH SIZE IN K IN TAC1 233 INTERN SEGSIZ 234 SEGSIZI INTERN SEGSIZ 335 G02213 SEGSIZI 34 IFN FTSWAP. SIZE WHEN NEXT SWAPPED IN(IN K) 35 G02213 135160 G000000 36 G02213 135160 G000000 LOB TAC1,IMGIN JSIZE WHEN NEXT SWAPPED IN(IN K)					RUUTIN	E TU PRINT SIZE OF LOGI	CAL SEGMENT (LOW OR HIGH)
218 ICALLED AT CLOCK LEVEL FROM CORE (UUO ARG) COMMAND AND SEGCON 219 INTERN PRTSEG 220 INTERN PRTSEG 221 EXTERN PCORS2 222 260140 002213' PRTSEG: PUSHJ POP,SEGSIZ ITAC1=SIZE OF HIGH OR LOW SEG 223 002210 260140 000002 MOVE TAC,TAC1 IRADX10 WANT DEC. NO. IN TAC 224 002212 254000 002207' JRST RADX10 JPRINT DECIMAL 226 JROUTINE TO RETURN SIZE OF HIGH OR LOW SEG JCALL! MOVE ITEM,LOW OR HIGH SEG NUMBER JPSHJ POP,SEGSIZ 226 JROUTINE TO RETURN WITH SIZE IN K IN TAC1 INTERN SEGSIZ 230 INTERN SEGSIZ INTERN SEGSIZ 231 SEGSIZI INTERN SEGSIZ 232 JROUTINE TO RETURN WITH SIZE IN K IN TAC1 233 INTERN SEGSIZ 234 SEGSIZI INTERN SEGSIZ 335 G02213 SEGSIZI 34 IFN FTSWAP. SIZE WHEN NEXT SWAPPED IN(IN K) 35 G02213 135160 G000000 36 G02213 135160 G000000 LOB TAC1,IMGIN JSIZE WHEN NEXT SWAPPED IN(IN K)					JUALL.	DUSUI DDD DDT SCA	SEG NUMBER
118 ;CALLED AT CLOCK LEVEL FROM CORE (UUO ARG) COMMAND AND SEGCON 119 INTERN PRTSEG 120 INTERN PRTSEG 121 EXTERN PCORS2 122 260140 002213' PRTSEG: PUSHJ PDP,SEGSIZ JTAC1=SIZE OF HIGH OR LOW SEG 122 002210 260140 000002 MOVE TAC,TAC1 JRADX10 WANT DEC. NO. IN TAC 125 002212 254000 002207' JRST RADX10 JPRINT DECIMAL 126 JROUTINE TO RETURN SIZE OF HIGH OR LOW SEG JCALL: MOVE ITEM,LOW OR HIGH SEG NUMBER J 126 JCALL: MOVE ITEM,LOW OR HIGH SEG NUMBER J PUSHJ PDP,SEGSIZ 127 JROUTINE TO RETURN SIZE OF HIGH OR LOW SEG JCALL: MOVE ITEM,LOW OR HIGH SEG NUMBER 129 J PUSHJ PDP,SEGSIZ JRETURN WITH SIZE IN K IN TAC1 131 INTERN SEGSIZ INTERN SEGSIZ 132 INTERN SEGSIZ EXTERN IMGIN 134 SEGSIZ: INTERN IMGIN 135 Ø02213 ISSIZE NHEN NEXT SWAPPED IN(IN K) 136 Ø02213 135160 Ø00000 138 Ø02214 320100 Ø01713' JUMPN TAC1.CPOPJ JØ						DETION	
19 INTERN PRTSEG 221 EXTERN PCORSZ 223 ØØ2210 260140 ØØ2213' PRTSEG: PUSHJ PDP,SEGS!Z ITAC1=SIZE OF HIGH OR LOW SEG 224 ØØ2211 200040 ØØ0002 MOVE TAC,TAC1 IRADX10 WANT DEC. NO. IN TAC 25 ØØ2212 254000 ØØ2207' JRST RADX10 JPRINT DECIMAL 26 IROUTINE TO RETURN SIZE OF HIGH OR LOW SEG JACALL' MOVE ITEM.LOW OR HIGH SEG NUMBER JUSHJ PDP,SEGSIZ 26 JROUTINE TO RETURN WITH SIZE IN K IN TAC1 JINTERN SEGSIZ JUSHJ PDP,SEGSIZ 26 JROUTINE TO RETURN WITH SIZE IN K IN TAC1 JINTERN SEGSIZ 27 JUSHJ PDP,SEGSIZ JUSHJ PDP,SEGSIZ 28 JUSHJ PDP,SEGSIZ JUSHJ PDP,SEGSIZ 29 JUSHJ PDP,SEGSIZ JUSHJ PDP,SEGSIZ 30 JUSHJ PDP,SEGSIZ JUSHJ PDP,SEGSIZ 31 INTERN SEGSIZ JUSHJ PDP,SEGSIZ 32 SEGSIZI SEGSIZ 33 EXTERN INGIN SEGSIZ 34 JESIZE WHEN NEXT SWAPPED IN(IN K) JUMPN TAC1, IMAGIN 35 ØØ2213 JSEGSIZ JUMPN TAC1, CPOPJ							
220 INTERN PRISEG EXTERN PCORS2 221 260140 002213' 223 002210 260140 002213' 224 002211 200040 000002 MOVE TAC,TAC1 IRADX10 WANT DEC. NO. IN TAC 225 002212 254000 002207' JRST RADX10 JPRINT DECIMAL 226 IROUTINE TO RETURN SIZE OF HIGH OR LOW SEG JCALL! MOVE ITEM,LOW OR HIGH SEG NUMBER 226 JCALL! MOVE ITEM,LOW OR HIGH SEG NUMBER JPUSHJ PDP,SEGSIZ 230 INTERN SEGSIZ INTERN SEGSIZ 241 02213 SEGSIZI INTERN SEGSIZ 253 SEGSIZI INTERN SEGSIZ 254 SEGSIZI INTERN SEGSIZ 253 SEGSIZI INTERN SEGSIZ 254 SEGSIZI EXTERN CPOPJ 254 SEGSIZI IFN FTSWAP, 257 SEGSIZI IFN FTSWAP, 258 SEGSIZI IFN FTSWAP, 254 SEGSIZI JUMPN TACI,CPOPJ JUMPN NEXT SWAPPED IN(IN K) 257 JUMPN TACI,CPOPJ JUMEANS NOT SWAPPED DUT 268 SEGSIZ					JUNCTER		
223 002210 260140 002013 PRTSEG: PUSHJ PDP,SEGST2 ;TAC1=STZE OF HIGH OR LOW SEG 224 002212 254000 002002 MOVE TAC,TAC1 ;RADX10 WANT DEC. NO. IN TAC 226 002212 254000 002207' JRST RADX10 ;PRINT DECIMAL 226 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER ; PUSHJ PDP,SEGST2 229 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER ; 230 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER 231 ;CALL1 MOVE SEGST2 333 ;CALL1 NTERN SEGST2 334 ;RETURN WITH SIZE IN K IN TAC1 335 002213 SEGST2: 335 Ø02213 SEGST2: 336 IFN FTSWAP, 337 EXTERN IMGIN 338 Ø02213 135100 339 Ø02214 326100 Ø01713' 340 ; JUMPN TAC1, IPTADP(ITEM) ;SIZE HEN NEXT SWAPPED IN(IN K) 339 Ø02214 326100 Ø01713' JUMPN TAC1, IPTADP(ITEM) 340 ; ; ; <						INTERN PRISEG	
223 002210 260140 002013 PRTSEG: PUSHJ PDP,SEGST2 ;TAC1=STZE OF HIGH OR LOW SEG 224 002212 254000 002002 MOVE TAC,TAC1 ;RADX10 WANT DEC. NO. IN TAC 226 002212 254000 002207' JRST RADX10 ;PRINT DECIMAL 226 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER ; PUSHJ PDP,SEGST2 229 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER ; 230 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER 231 ;CALL1 MOVE SEGST2 333 ;CALL1 NTERN SEGST2 334 ;RETURN WITH SIZE IN K IN TAC1 335 002213 SEGST2: 335 Ø02213 SEGST2: 336 IFN FTSWAP, 337 EXTERN IMGIN 338 Ø02213 135100 339 Ø02214 326100 Ø01713' 340 ; JUMPN TAC1, IPTADP(ITEM) ;SIZE HEN NEXT SWAPPED IN(IN K) 339 Ø02214 326100 Ø01713' JUMPN TAC1, IPTADP(ITEM) 340 ; ; ; <	221					EXTERN PCORSZ	
223 002210 260140 0020213' PRTSEG: PUSHJ PDP,SEGST2 ;TAC1=STZE OF HIGH OR LOW SEG 224 002212 254000 002022 MOVE TAC,TAC1 ;RADX10 WANT DEC. NO. IN TAC 225 002212 254000 002007' JRST RADX10 ;PRINT DECIMAL 226 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER ; PUSHJ PDP,SEGSI2 226 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER ; 229 ;CALL1 MOVE ITEM,LOW OR HIGH SEG NUMBER 229 ;PUSHJ PDP,SEGSI2 ; 230 ;RETURN WITH SIZE IN K IN TAC1 231 :INTERN SEGSI7 232 :INTERN SEGSI7 233 SEGSI71: 234 :SEGSI71: 235 002213 SEGS171: 236 :EXTERN CPOPJ 237 :EXTERN IMGIN 238 :SIZE WHEN NEXT SWAPPED IN(IN K) 239 :002213 135100 000000 239 :002214 326100 001713' JUMPN TAC1.CPOPJ ;0 MEANS NOT SWAPPED OUT 240 :00215 :554404 000101' <td>222</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	222						
227 ;ROUTINE TO RETURN SIZE OF HIGH OR LOW SEG 228 ;CALL: MOVE ITEM,LOW OR HIGH SEG NUMBER 229 ; PUSHJ PDP,SEGSIZ 230 ; RETURN WITH SIZE IN K IN TAC1 231 INTERN SEGSIZ 233 EXTERN CPOPJ 234 SEGSIZ: 235 Ø02213 334 SEGSIZ: 235 Ø02213 334 EXTERN CPOPJ 235 Ø02213 334 SEGSIZ: 335 SEGSIZ: 334 JUMPN TAC1, IMGIN 335 JUMPN TAC1, CPOPJ 336 Ø02214 337 JUMPN TAC1, CPOPJ 338 Ø02214 339 Ø02214 331 JUMPN TAC1, CPOPJ 340 JUMPN TAC1, CPOPJ 341 Ø001713'	223	002210	260140	ØØ2213'	PRTSEG:	PUSHJ PDP, SEGSIZ	ITAC1=SIZE OF HIGH OR LOW SEG
227 ;ROUTINE TO RETURN SIZE OF HIGH OR LOW SEG 228 ;CALL: MOVE ITEM,LOW OR HIGH SEG NUMBER 229 ; PUSHJ PDP,SEGSIZ 230 ; RETURN WITH SIZE IN K IN TAC1 231 INTERN SEGSIZ 233 EXTERN CPOPJ 234 SEGSIZ: 235 Ø02213 334 SEGSIZ: 235 Ø02213 334 EXTERN CPOPJ 235 Ø02213 334 SEGSIZ: 335 SEGSIZ: 334 JUMPN TAC1, IMGIN 335 JUMPN TAC1, CPOPJ 336 Ø02214 337 JUMPN TAC1, CPOPJ 338 Ø02214 339 Ø02214 331 JUMPN TAC1, CPOPJ 340 JUMPN TAC1, CPOPJ 341 Ø001713'		002211	200040	000002		MOVE TAC, TAC1	IRADX10 WANT DEC. NO. IN TAC
227 ;ROUTINE TO RETURN SIZE OF HIGH OR LOW SEG 228 ;CALL: MOVE ITEM,LOW OR HIGH SEG NUMBER 229 ; PUSHJ PDP,SEGSIZ 230 ; RETURN WITH SIZE IN K IN TAC1 231 INTERN SEGSIZ 233 EXTERN CPOPJ 234 SEGSIZ: 235 Ø02213 334 SEGSIZ: 235 Ø02213 34 SEGSIZ: 35 Ø02213 36 IFN FTSWAP. 37 EXTERN IMGIN 38 Ø02213 39 Ø02214 326100 Ø01713' JUMPN TAC1.CPOPJ JØ MEANS NOT SWAPPED OUT 34 Ø0215		002212	254000	002207		JRST RADX10	JPRINT DECIMAL
228 ; CALL! MOVE ITEM.LOW OR HIGH SEG NUMBER 229 ; PUSHJ PDP,SEGSIZ 230 : RETURN WITH SIZE IN K IN TAC1 231 : INTERN SEGSIZ 232 INTERN SEGSIZ 233 SEGSIZ: 234 : SEGSIZ: 235 ØØ2213 236 SEGSIZ: 237 EXTERN CPOPJ 238 SEGSIZ: 239 ØØ2213 135100 ØØ00000 LDB TAC1, IMGIN 239 ØØ2214 26100 ØØ1713' JUMPN TAC1, CPOPJ : Ø MEANS NOT SWAPPED OUT 240 >							
229 ; PUSHJ PDP,SECSIZ 230 ; RETURN WITH SIZE IN K IN TAC1 231 : RETURN WITH SIZE IN K IN TAC1 231 : INTERN SEGSIZ 232 : INTERN SEGSIZ 233 : EXTERN CPOPJ 234 : : 235 : : 236 : : 237 : : 238 : : 239 : : 238 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :				n de la de	ROUTIN	TO RETURN SIZE OF HIG	H OR LOW SEG
30 ; RETURN WITH SIZE IN K IN TAC1 31 intern segsiz 32 intern segsiz 33 extern CPOPJ 34 segsiz: 35 g02213 36 ifn ftswap.<					TCALLI		SEG NUMBER
31 INTERN SEGSIZ 232 INTERN SEGSIZ 233 EXTERN CPOPJ 234 SEGSIZ: 235 Ø02213 236 IFN FTSWAP. 237 EXTERN IMGIN 238 Ø02213 239 Ø02213 239 Ø02214 326 JUMPN TAC1.CPOPJ 240 SEGSIZ: 241 Ø00101					, ,		TH TACA
101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>RETURN WITH SIZE IN K</td> <td>IN TAUL</td>					•	RETURN WITH SIZE IN K	IN TAUL
33 EXTERN CPOPJ 234 SEGSIZ: 235 Ø02213 236 IFN FTSWAP,<						INTERN SECSIZ	
34 SEGSIZ: 35 ØØ2213 36 IFN FTSWAP,<							
136 IFN FTSWAP, 137 EXTERN IMGIN 138 002213 135100 000000 LDB TAC1,IMGIN 139 002214 326100 001713' JUMPN TAC1.CPOPJ JØ MEANS NOT SWAPPED OUT 140 > >							
36 IFN FTSWAP. 37 EXTERN IMGIN 38 002213 135100 000000 LDB TAC1,IMGIN 39 002214 326100 001713' JUMPN TAC1.CPOPJ JØ MEANS NOT SWAPPED DUT 40 > >	35	002213			SEGSIZI		
138 002213 135100 000000 LDB TAC1, IMGIN ;SIZE WHEN NEXT SWAPPED IN(IN K) 139 002214 326100 001713' JUMPN TAC1,CPOPJ ;0 MEANS NOT SWAPPED OUT 140 2000	36				IFN FTSI	NAP. <	
39 002214 326100 001713' JUMPN TAC1.CPOPJ 10 MEANS NOT SWAPPED OUT 240 > 241 002215 554104 0001011 - HERATAC1. PTADD(ITEM) ISIZE-1 FOR FOR DEFINITION OF FIGURES IN HORDS IN CORE							
239 002214 326100 001713' JUMPN TAC1.CPOPJ 10 MEANS NOT SWAPPED OUT 240 > 241 002215 554104 0001011 - HERATAC1. PTADD(ITEM) ISIZE-1 FOR FOR DEFINITION OF HICH SEC IN HORDS IN CORE		002213	135100	@@@@@@		LDB TAC1,IMGIN	<pre>\$SIZE WHEN NEXT SWAPPED IN(IN K)</pre>
AL RA2215 554104 RARIALL ULDE TACL DEADDUITENT SETELLION ON OF UTCH SEC IN HODE IN COR		002214	326100	001713'		JUMPN TAC1.CPOPJ	IØ MEANS NOT SWAPPED OUT
41 002215 554104 000101' HLRZ TAC1,JBTADR(ITEM) JSIZE-1 LOW LOW OR HIGH SEG IN WORDS IN CORE 42 002216 322100 002214' JUMPE TAC1,CPOPJ JIS IT IN CORE? 43 002217 242100 777766 LSH TAC1,-12 JYES, CONVERT TO #K-1							
242 002216 322100 002214' JUMPE TAC1,CPOPJ //IS IT IN CORE? 243 002217 242100 777766 LSH TAC1,-12 //YES, CONVERT TO #K-1		002215	554104	000101'		HLRZ TAC1, JBTADR(ITEM)	ISIZE-1 LOW LOW OR HIGH SEG IN WORDS IN CORE
243 60221/ 242100 ////00 LSH TAC1,-12 JYES, CONVERT TO #K-1		002216	322100	002214		JUMPE TAC1, CPOPJ	IIS IT IN CORE?
	243	002217	242100	////66		LSH FAC1,-12	IYES, CONVERT TO #K-1

COMCON	- COMMAI Comcss	ND DECODI - Commoi	ER AND SA N COMMANE	VEGET ROUTINES - V433 MACRO,V36 19102 4-JUN-69 PAGE 83 Subroutines
2245 2246 2247 2248 2249 2250 2251 2252				ROUTINE TO ASSIGN A MINIMAL CORE AREA(140 WORDS) ICALLED FROM CORE,KJOB, AND RUN COMMANDS ITHIS ROUTINE PRESERVES INPUT BYTE POINTER IN TAC ICALL: PUSHJ PDP,GETMIN RETURN PROG=0 IF UNSUCCESSFUL OR CORE ASSIGNED ON DISK EXTERN JOBDA,TPOPJ
2253 2254 2255 2256 2257 2258	002221	261140	000006	GETMIN: IFE FTTTYSER,< PUSH PDP,TAC ISAVE INPUT BYTE POINTER TO COMMAND > IFN FTTTYSER,<
2259 2260 2261 2262 2263		26114Ø 26114Ø 26114Ø	000002	PUSH PDP, DEVDAT ISAVE TTY DDB ADR PUSH PDP, TAC1 ISAVE DEVICE NAME(GET) PUSH PDP, IOS ISAVE DISPATCH ADDRESS(ANYACT USES IOS) IFN FT2REL,< EXTERN KILHGH
2264 2265	002224	260140	000401'	PUSHJ PDP,KILHGH ;KILL HIGH SEG
2266 2267 2268 2269 2270	ØØ2225 ØØ2226 ØØ2227 ØØ2230 ØØ2231	201040 260140 255000 262140 262140	0000000 000501' 000000 000000 000000	MOVEI TAC,JOBDA JLENGTH OF JOBDATA AREA PUSHJ PDP,COREØ JASSIGN 140 WORDS ON DISK OR MEMORY JFCL JIGNORE IF CANT(PROG=Ø) POP PDP,IOS POP PDP,TAC1 JRESTORE PUSHED ACS
2271 2272 2273 2274 2275	ØØ2232 ØØ2233	_	000006 000000	IFN FTTTYSER,< POP PDP,DEVDAT JRESTORE TTY DDB ADR POPJ PDP, JTAC NOT USER BY FULL DUPLEX SCNSER >
2275 2276 2277				IFE FTTTYSER,< JRST TPOPJ ;RESTORE TAC AND RETURN >

					600 NTC 10102 1- UN-60 BACE 84
COMCON				EGET ROUTINES - V433 MA SUBROUTINES	CR0,V36 19:02 4-JUN-69 PAGE 84
2278				ROUTINE TO GET 1 WORD FRO	IM USER ARE WHICH CAN BE IN LOW OR HIGH SEG
2279				ICALL: MOVE PROG, EXWD PRO	IT, RELOC FOR LOW SEG]
2280				MOVE ITEM, JOB NUMB	ER
2281				; HRLI UUO,PROG	IFOR RELOCATION
2282				# HRR UUO, USER ADDRE	SS(IE BEFORE RELOCATION)
2283				; PUSHJ PDP,GETWRD	
2284				ERROR RETURN ADDRE	SS OUT OF BOUNDS
2285				; OK RETURN, CONTENT	
2286				;CAN BE CALLED AT CLOCK OR	
2287				;CALLED FROM E COMMAND, INI	T, OPEN AND CALL UUOS
2288					
2289				INTERN GETWRD	
229Ø				EXTERN CPOPJ1	
2291					
2292	002234	554040	000007	GETWRD: HLRZ TAC, PROG	ILARGEST REL LOC IN LOW SEG
2293	002235	305054	000000	CAIGE TAC,(UUO)	IIS ADR, IN LOW SEG?
2294				IFN FT2REL .<	
2295				EXTERN HGHWRD	
2296	002236	254000	000000	JRST HGHWRD	IND, CHECK IF IN HIGH SEG(ERROR RET IF N
2297				>	
2298				IFE FT2REL <	
2299				POPJ PDP,	INO, ERROR RETURN
2300				>	
2301	002237	200060	000014	MOVE TAC, OUUO	IYES, GET IT FROM LOW SEG
2302	ØØ224Ø	254000	ØØ2111'	JRST CPOPJ1	JAND SKIP RETURN

COMCON	- COMMAND DECODER AND SAVEGET ROUTINES - V433 MACRO, V36 19:02 4-JUN-69 PAGE 85
	COMCSS - COMMON COMMAND SUBROUTINES
2303	SUBTTL SAVGET - SAVE,GET,R,RUN COMMANDS AND RUN,GETSEG UUOS
2304	AND CAREER CAREER CONTAINED AND KON, GETSEG DUUS
2305	SAVGET LOWER CORE LOCATIONS USED FOR UUOS TO MONITOR
2306	USED IN SAVGET IN APREER AND SAVGET IN SECON
2307	THESE LOCATIONS ARE DEFINED TO BE IN THE USERS UND ACS
2308	The sense of the set o
2309	FOR LOOKUP, ENTER UUOS:
2310	XP SGANAM, Ø+
2311	JFILE NAME
2312	XP SGAEXT, SGANAM+1+
2313	FILE EXTENSION
2314	XP SGADAT, SGANAH 21
2315	FILE CREATION DATE+TIME
2316	XP SGALEN, SGANAM+31
2317	
2318	\$LH=-LENGTH,RH=FIRST LOC-1 DUMPED
2319	
2320	<pre>>> OR PROJECT-PROGRAMMER NUMBER(DISK) XP SGAEND,SGALEN+1+</pre>
2321	
	ILAST WORD OF DUMP COMMAND LIST=Ø(SAVE AND GET
2322	XP SGAREN, SGAEND+
2323	A SCREENSCHENSCHENST HALSO FIRST HORD FOR DENNES HORE TO BE FER
2324	; ALSO FIRST WORD FOR RENAME USED AS DELETE XP SGAPPN,SGAREN+3+
2325	
2326	FOURTH WORD-PLACE TO SAVE PROJECT-PROGRAMMER
2327	I NUMBER USER TYPED
2328	, NUMBER USER ITPED
2329	FOR UPEN UUDS:
2330	XP SGAMOD, 10+
2331	JIOS MODE WORD FOR OPEN UND
2332	XP SGADEV, SGAMODIA
2333	JDEVICE NAME
2334	XP SGAHED, SGAMOD+2+
2335	JINPUT-OUTPUT BUFFER HEADER ADDRESSES=0
2336	THE OTHER HEADER ADDRESSESEN
2337	MISC. DATA LOCATIONS:
2338	
2339	XP SGADMP,13+
2340	JDUMP COMMAND IOWD
2341	XP SGACOR,14+
2342	JAC FOR CORE UUO'S(HIGHEST USER LOC DESIRED)
2343	XP SGANEW, 15+
2344	INEW CORE ASSIGNMENT AS SPECIFIED BY THIRD ARG
2345	XP SGAHGH, 16+
2346	JLH=EXT TO USE FOR SAVING HIGH SEG
2347	Secret in one for swaring high sec
2348	; RH=EXT TO DELETE(IE SHRHGH OR HGHSHR)
2349	XP SGALOW, 17+
2350	ILHEEXT WHICH USER TYPED FOR SAVE OR GET COMMAN
2351	PLOTEAT WHICH USER TIPED FOR SAVE OR GET COMMAN
2352	LOD CAN IF UP DIDN'T THAT IS A
2353	; OR .SAV IF HE DION'T TYPE AN ARG WITH LEADING

COMCON					UTINES - V433 MACRO.V: 5 AND RUN,GETSEG UUOS	36 19:02 4-JUN-69 PAGE 86
2355 2356 2357 2358 2359 2360 2361				COMMANI WHEN SO CALL: ; ;	DS AND STORE THEM IN JOB SET IS CALLED FROM COMM MOVE TAC, INPUT BYTE POI MOVE TAC1, SIXBIT DEVICE MOVE DAT, OUTPUT BYTE PO MOVE IOS, ADR, OF MONITOR	NTER NAME INTER I JOB(SAVJOB:GETJOB:RUNJOB)
2362 2363				1	MOVE PROG, ADR. OF JOB / PUSHJ PDP,SGSET	ARLA
2364				•	F03R3 (DF)38321	
2365			000012	C=BUFPN	r	
2366				THE FERMIN		
2367 2368					_ FTLOGIN,FT2REL,FTDISK _ JOBCOR,JBTPRG	
2369						
2370				SGSET:	JUMPE TAC1, NOTENF	INOT ENOUGH ARG IF NO DEVICE NAME
2371		202107			MOVEM TAC1, SGADEV(PROG)	
2372	002243		ØØØ626' ØØ1723'		SKIPN TAC1, JRTPRG(ITE) PUSHJ PDP, CTEXT1	<pre>y jget automatic filename, or jget file name from command string</pre>
2373 2374	ØØ2244 ØØ2245	260140 322100	002034		JUMPE TAC1,NOTENF	STHERE MUST BE A FILE NAME
2375	002246	202107			MOVEM TAC1, SGANAM(PROG)	
2376	002247					ISAVE FILE NAME FOR SYSTAT COMMAND
2377	002250	201100	000000		MOVEI TAC1,0	ASSUME USER DID NOT SPECIFY AN EXTENSION
2378	002200	201100				Ø WILL BE TURNED INTO SAV OR DMP
2379				IFE FTTT	YSER, < LDB TEM, TAC	>
2380	002251	306400	000056			EXTENSION SPECIFIED?
2381	002252	260140	001721'		PUSHJ PDP, CTEXT ; YES, GE	ET EXTENSION
2382	002253	512107	000001		HLLZM TAC1, SGAEXT(PROG)	ISTORE IT FOR LOOKUP
2383				IFN FT2F		
2384					EXTERN SETEXT	JALSO SAVE IT AGAIN IN SGALOW FOR LOW SEG
2385						I LOOKUP OR ENTER
2386	002254	260140	000000		PUSHJ POP,SETEXT	ISET HIGH EXTENSION (SGAHGH) TO ,SHR IF SSAVE OR GET
2387				>		; .HGH IF SAVE(LH IOS≃NSRBIT),
2388 2389	002255	102007	000002	/	SETZM SGADAT(PROG)	SET DATE(E+2) TO Ø, SO MONITOR WILL USE TODAYS
2390	002200	402.001	DDDDDDZ	IFN FTLO		JOET BRIETEREY TO BY OUR HOMETON WILL DOE TODATO
2391	ØØ2256	260140	002117'		PUSHJ PDP, PJPGNO	JGET PROJ. PROG. NO.
2392	002257	202707	000007		MOVEM AC2, SGAPPN(PROG)	ISTORE Ø IF NO CI'S TYPED BY USER
2393		2007.07		>		
2394	002260	260140	002071'		PUSHJ PDP,DECIN1	;AMOUNT OF CORE (OPTIONAL THIRD ARG.)
2395	002261		002265		JRST SGSET1	JODES NOT RETURN IF ERROR, RETURN HERE IF NO ARG.
2396	002262	254000	002000'		JRST COMERA	;ILLEGAL CHARACTER
2397	002263	242100	000012		LSH TAC1,12	CONVERT TO HIGHEST REL, LOC.
2398		275100	000001		SUBI TAC1,1	
2399	002265	202127		SGSET1:	MOVEM TAC1, SGANEW (PRAG)	
2400	ØØ2266	550100	0000000		HRPZ TAC1, IOS	SCHEDULE MONITOR JOB
2401						; GUARRANTEE LH OF PC WORD IS Ø, SINCE IT WILL : BE ADDED TO STARTING ADDRESS(IF RUN COM)
2402	aaaa47	054000	0016041		JRST MSTART	START JOB WITH PC IN MONITOR MODE
2403	002201	224050	001604'		JASI MSIGNI	Parket and with to the nomitor non-

					S AND RUN,GETSEG UUOS		
2404			000001	ROUTIN	E TO PICKUP ARGUMENTS FOR	R RUN AND GETSEG UUOS	
2405				THIS R	OUTINE DOES SAME THING AS	S SGSET, EXCEPT THAT ARGUMENTS ARE	
2406				IOBTAIN		TS INSTEAD OF FROM CONSOLE COMMAND	
2407				THE US	ERS ARG ARE MOVED TO USER	R ACS(SGA.,.), THEREBY CLOBBERING HIS ACSS	
2408				JUSER A	C FIELD AND START PC OFFS	SET(RUN UUO) ARE SAVED ON PD LIST AT JOBPD3	
2409				THEN L		CALLED) RESET IS NOT DONE (FOR GETSEGUUD)	
2410				JBTPRG	NOT SET FOR LOW SEG, SIN	NCE GETSEGUUO SHOULD NOT	
2411				CALL:	MOVE TAC, CONTENTS OF USF	ER AC(ADR, OF 3 WORD ARG LIST)	
2412				1	MOVE PROGIJOB RELOCATION	N	
2413 2414				1	PUSHJ PDP;GETARG		
2414				3	RETURN		
2415					INTERN GETARG		
2417					EXTERN JBTPRG, JOBCOR, PUL	linar	
2418					ENTERN ODIE NOVGOODDEL, DE	JOAC	
2419	002270	540600	000001	GETARG:	HRR UUD, TÁC	IMOVE ADR. OF ARG LIST TO UUO	
2420	002271	250043	ØØØØØØ		EXCH TAC, (PDP)	JAND PUT ON PO LIST JMOVE RETURN PC UP ONE IN PD LIST JUSER AG FIFID IN RUN OR GETSEG 100	
2421		261140			PUSH PDP, TAC	IMOVE RETURN PC UP ONE IN PD LIST	
2422	002273	135040			LDB TAC, PUUDAC	JUSER AC FIELD IN RUN OR GETSEG UUO	
2423		542043			HRRM TAC, -1(PDP)	ISAVE IN CASE OF ERROR RETURN	
2424		200140	000000		PUSHJ PDP,GETWOU	JGET FIRST ARG FROM USER AREA	
2425		202047			MOVEM TAC SGADEV (PROG)	STORE DEVICE NAME	
2426	ØØ2277 ØØ23ØØ	260140 202047			PUSHJ PUPAGETWDI	IGET NEXT ARG FROM USER AREA	
					MUVEM IACIDGANAMIPRUGI Dugu i podícetúni	STORE FILE NAME FOR LOOKUP (DO NOT STORE FO	JR LOWSEG
2429		200100			MOVE TACI TAC	JGET THIRD ARG(EXTENSION WORD E+1) JPUT ARG IN TAC1, SO SAME AS SGSET RETURN FF	DAM CTEXT
2430		202107			MOVE TACLISCAFXT(PROG)	ISTORE EXTENSION AND RH FROM USER	NUM LIEAT
2431		CDC1.	~	IFN FT2F	RFL C	12 DAE EXICUSION AND NH FROM COLA	
2432					EXTERN SETEX1		
2433	002304	260140	000000			ISAVE EXT AGAIN IN SGALOW	
2434						<pre>\$ SETUP EXT FOR HIGH SEG(SGAHGH="SHR")</pre>	
2435						\$ SETUP EXTENSION FOR LOW SEG(SGALOW="SAV")	
2436				>	-		
2437			002301'			IGET FOURTH ARG(DATE WORD)	
2438		202047	000002		MOVEM TAC, SGADAT (PROG)		
2439	002307	260140	002305		PUSHJ PDP.GETWD1	JGET FIFTH USER ARG FROM USER AREA	
244Ø 2441	002310 002311	202047 260140	000007		MOVEM TACISGAPPNEPRUGI	STORE PROJECT, PROGRAMMER NO. OR Ø	
2441 2442		260140 552047	002301		PUSHJ PUPJGEIWUI	ISIXTH ARG FROM USER ISTORE CORE ARG OR Ø(HIGHEST LOC DESIRED)	
2442	RACOTE	592071	00001-		HRREM TALESGANEWIERUSZ	ISTORE CORE ARG OR D(HIGHEST LOC DESTRED)	
2444	002313	254000	002440'			JGO SET UP LOWER CORE AND RETURN	
2445		C				I DO NOT DO A RESET	

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COMCON						, V36 19:02 4-JUN-69 PAGE 88
	SAVGET	- SAVE,	GET,R,RUN	COMMAND	S AND RUN,GETSEG UUOS	
2446					OB SAVES A JOB AREA ON P	
2447 2448						D CALLS IO ROUTINES USING REGULAR UUOS Atus of Io Devices, Jobpdp, or Ac's
2440						WHICH MAY BE DONE WITH A JOB AREA
2450						START EXECUTION OVER AT THE STARTING
2451				ADDRES		START EXENDITOR OVER AT THE STARTING
2452				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
2453				INTERNA	L SAVJOB, SAVERR	
2454					L JOB41, JOBS41, JORDDT, JO	JBSDD, JOBSV
2455						
2456						
2457	002314	265190	002436'	SAVJOB:	JSP TAC1,SG1	SET UP ACS PROG, PDP, JDAT, ITEM,
2458						; RESET DEVICES
2459		574107	000013		HLRE TAC1, SGADMP(PROG)	
2460	@@2316	260140	002753		PUSHJ PDP,CKIOWD	ICHECK USER'S CORE ARG(IF ANY) WITH AMOUNT TO WRITE
2461						; RETURN ONLY IF Ø OR NOT SMALLER
2462 2463	002317	542047	000000		HRRM TAC, JOBCOR(PROG)	ISTORE MAX OF SIZE OF FILE OR CORE ARG
2463				IEN ET2		I FOR ASSIGNING INITIAL CORE WHEN FILE GOTTEN
2465				TEN ETZ	EXTERN SAVHGH	
2466	002320	260140	ØØØØØØ		PUSHJ PDP, SAVHGH	INIT DEV, SAVE HIGH SEG, IF ANY, RETURN IF OK
2467			0023741		JRST SAVEIN	SHIGH SAVED, BUT NO DATA IN LOW SEG, SO DO
2468						NOT WRITE LOW FILE
2469						I SKIP RETURN IF LOW SEG TO BE WRITTEN
2470				>		
2471						I SGALEN, AND SGAEXT RESTORED
2472	002322	650000	000010	SAVJB1:	OPEN Ø,SGAMOD	IRE INIT DEVICE, SO UGETF WILL SET FIRST FREE
2473						; BLOCK BECAUSE NO LODKUP OR ENTER DONE
2474		254070			JRST SGERRA	JDEVICE NOT AVAILABLE
2475	002324	273000	000012		UGETF 0,SGAHED	IGET FIRST FREE BLOCK (MEANINGFUL ONLY IF DTA)
2476						I CAUSE ENTER TO ASSIGN FIRST LOBCK OF FILE
2477 2478						I AS LOWEST FREE BLOCK SO TENDMP CAN READ
2470	002225	9779:30	000000		ENTER Ø,SGANAM	I SAVED FILES, SGAHED IS NO LONGER NEEDED(OPEN UUD) IENTER FILE NAME IN DIRECTORY
2480		254000	0024001		JRST SAVER	IDIRECTORY FULL OR PROTECTION FAILURE
2481	202320		000000			ISAVE USER UND HANDLING JSR
2492		202047	000000			JIN UPPER PART OF JOB DATA AREA
					1111 1101 1001 1100 H V	The Brief and Dr. Oop Sala anea

COMCON						- V433 MACRO.V3 Run,getseg uuos	56 19:02 4-JUN-69 PAGE 89	
2483 2484 2485	ØØ2331 ØØ2332 ØØ2333	200047 202047 563000	000000		MOVEM	TAC, JOBSDD(JDAT)	ISAVE DDT STARTING ADDRESS HIGHER UP IN JOB DA ISO COMPRESS ALWAYS MOVES CODE DOWN IFLAG THAT SAVE GET IS UNDER WAY	ATA AREA
2486 2487	002333	500000	PPI000.		HANUS	USKRUU	SO THAT JOBHRL WILL NOT BE MODIFIED BY SETH	GH ROUTINE
2488							I TO USER'S HIGH SEG RELOCATION INFO, SINCE	
2489							IT WILL CONTAIN COMPRESSION IOWD.	
249Ø 2491	002224	550407	000443'				I COMPRESSION WILL ALWAYS MOVE DOWN ISAV START ADDRESS FOR 10DMP	
2492	002335	201047	0000000				POINT TO 1ST DATA WORD	
2493	002336	200100	003066'		MOVE		OBSDDI FIT STARTS AT JOBSDD	
2494	002337	574207					JIOWD FOR THIS SIZE CORE(-LENGTH TO WRITE)	
2495	002340	213000	000004		MOVNS	ITEM	POSITIVE LENGTH	
2496	002341	271200	000000		ADDI		JADD IN FIRST LOC-1 TO WRITE=HIGHEST LOC TO WE	RITE
2497							I TO MAKE END TEST	
	002342	505200	000007		HRLI	ITEM, PROG	JUSE PROG FOR RELOCATION	
2499	002343	202040		CMPLP1:			ISAVE 1ST LOC FOR IOWD	
2500 2501	ØØ2344 ØØ2345	313100 344040	000004 002362'		CAMLE	TAC1, ITEM TAC, CMPTHR	SEARCH FOR 1ST NON-Ø WORD Sthrough	
2001	602343	344040	002302		AUJA	IAUJUMPIHK	FIRCUGH	
2502	ØØ2346	336020	000002		SKIPN	@TAC1	;THIS A DATA WORD?	
2503	002347	344100	002344'		AOJA		IND, KEEP LOOKING	
2504	002350	211640	000001		MOVNI		IYES. AC1 WILL BE AN IOWD	
2505 2506		505642 261060	777777	awa: 83.	HRLI		11ST LOCATION - 1	
2500	ØØ2352 ØØ2353	201000 350000	000002 000032	CMPLP2:	AOS	TAC,@TAC1 TAC1	SAVE A DATA WORD	
2508	002353	315100	0000002		CAMGE		IAT TOP?	
2509		336020	000002		SKIPN	@TAC1	JAT TOP? JNO. NEXT WORD NON-0? JNO. THROUGH THIS BLOCK JCOUNT THE WORD AND CHECK NEXT JSAVE IOWD IN FRONT OF BLOCK JLOOK FOR NEXT NON-0 BLOCK JSET A JRST C(JOBSA) JAT END OF FILE JCOMPUTE WORD COUNT	
2510		254000	002360		JRST	.+2	ING. THROUGH THIS BLOCK	
2511	002357	364640	002352'		SOJA	AC1, CMPLP2	ICOUNT THE WORD AND CHECK NEXT	
2512	002360	206645	000000		MOVSM	AC1,CMPLP2 AC1,(DAT)	ISAVE IOWD IN FRONT OF BLOCK	
2513	002361	344040	0023431		ACJA	TAC, CMPLP1	ILOOK FOR NEXT NON-Ø BLOCK	
2514		505400	254000	CMPTHR:	HRLI	TEM,254070	ISET A JRST C(JOBSA)	
2515		202401	777777		MOVEM	TEM,-1(TAC)	JAT END OF FILE	
	002364	275047	ØØ2335'		SUBI	TAC, JOBSV(JDAT)	ICOMPUTE WORD COUNT	
2517		213000	000001		MOVNS	TAU	IMAKE AN IOWD	
2518 2519	002366	504047 206047	000013		HRL			
2519	002367 002370	200047 201040	000003 777776		MOVEN		FIGHD FOR THE OUTPUT UUD	
2521	002370	201040 506040	002333'				JKEEP LH NEG. COMMAND DECODER WILL EXPANT	
2522	102011	2000-0	-02000		HONG IN		J CORE ON START ,DDT,SAVE, REENTER,SSAVE IN C	455
2523							I THIS SAVE IO DOES NOT GO TO COMPLETION. (CON	
2524							I OR DEVICE FULL, SO THAT CORE DOES NOT GET EN	

COMCON	- COMMAN Savget	D DECODE - Save,G	R AND SAVEGET et,r,run comma	ROUTINES - V433 MACRO.V NDS AND RUN,GETSEG UUOS	/36 19:02 4-JUN-69 PAGE 90
2525 2526 2527	ØØ2372 ØØ2373	260140 067000	002560' 000003	PUSHJ PDP,SGDOA Output Ø,Sgalen	;DO OUTPUT,RELEASE,FIND TTY ;OUTPUT UUO EXECUTED BY SGDO ; RETURN HERE ONLY IF NO ERRORS
2528 2529 2530	002374 002375 002376 002377	260140 265040 452370 406550	002542' SAVFI 000000 220246 542000	N: PUSHJ PDP,SGREL JSP TAC,PHOLD ASCIZ /JOB SAVED/	RELEASE DEVICE AND FIND TTY PRINT MESSAGE AND STOP JOB
2531 2532 2533	002400	201040	000002 SAVER	R: MOVEI TAC, PRTERR	JERROR CODE IN CASE RUN UUO(PROTECTION ERROR) J CHANGE TO DISK ERROR CODE IF DEV IS DSK JCHANGE TO DISK ENTER ERROR CODE IF DSK
2534 2535 2536	002401	260140	0030251	PUSHJ PDP,SGRELL	; RELEASE DEVICE AND RETURN TO USER(IF RUN UUO) ; OR FIND TTY+PRINT ?CRLF
2537 2538	002402 002403 002404 002404	265Ø4Ø 422232 522372 432531	002375* 242606 254500 446000	JSP TAC,PHOLD ASCIZ /DIRECTORY FULL/	IPRINT MESSAGE AND STOP JOB

2539									
2540								A RETRIEVABLE DEVICE	
2541				ITHIS JO	B RUNS	S IN EXEC.	MODE AN	D CALLS ID ROUTINES DIRECTLY	
2542								STATUS OF IO DEVICES, PC, OR AC'S	
2543 2544						TO STARTI			
2545				JUDRE MU			BEEN AS	SIGNED AND THE FOLLOWING LOC, SETUP	IN
2546				JOBPDP			-	`	
2547					U UUUU				
2548				INTERNAL	. GETJO	OR			
2549		_	_						
2550	002406	265100	0024361	GETJOB:	JSP T/	AC1,SG1		SETUP ACS, SETUP LOWER CORE(SGALE	I,SGADMP)
255 <u>1</u> 2552	002407 002410	260140 265040				PDP,GETJE AC,PHOLD		IGET THE JOB	,
2553			220246			/JOB SETL		RETURN ONLY IF EVERYTING OK	
		426512			A0012	, 000 JE / 0			
2554									
2555									
2556				ITHIS JO	B GETS	S A JOB AR	EA FROM /	A RETRIEVAL DEVICE AND STARTS IT UP	
2557				JOB HAS	; JUST	A JOB DAT	A AREA AS	SSIGNED WHEN CONTROL GETS HERE	
2558								EA FROM A RETREIVABLE DEVICE	1
2559				ASSIGNS	CORE	AND START			
256Ø 2561									
2562				INTERNAL	RUNJU	ЭВ			
2563	002413	265100	0024361	RUNJOB:	JSP T/	AC1.5G1		SETUP ACS, SETUP LOWER CORE(SGALE	SCADAP)
2564	002414	254000	0024221		JOST I	JRUN1		JLH PF PC WORD=0(MSTART) SO LH OF 1	

2568 2569				IRUN UU	MOVE AC, [XWD N, D]	
257Ø				JUNCLI	CALL AC. [SIXBIT /F	UN/J
2571				;	ERROR RETURN	JUNLESS LH=HALT(PRINT CONSOLE MESS, IF YES)
2572				;	IK OK, TRANSFER TO	C(JOBSA)+N FOR NEW PROGRAM
2573				;	USERS ACS CLOBBERE	D SO CANNOT PASS DATA TO NEW PROGRAM
2574						_
2575				WHERE:		E
2576				1	D+1/ FILE NAME D+2/ FILE EXT O	R @ (LH SIXBIT)
2578				;	D+3/ DATE ETC	
2579				;		OGRAMMER NO OR Ø(CURRENT UFD OR DTA,MTA)
2580				;		C DESIRED(OR Ø) ANALOGOUS TO RUN COMMAND
2581				;		RED (RATHER THAN ASSIGNING CORE TO HIGH SEG)
2582						
2583					INTERN URUN	
2584					EXTERN JOBSA	
2585			0007751		DUCUL DOD BOOT	RELEASE DEVICES
2586 2587	002415	200140	000375'	URUNI	PUSHJ PDP,RESET	JRELEASE DEVICES J WARNING! THIS GOES VERY DEEP IN
2588						; PUSHDOWN, SEE MCO 518
2589						(AC UUD PRESERVED IN RESET)
2590	202410	200060	000014		MOVE TAC, OUUD	RESTORE CONTENTS OF USER'S CALLING AC
2591	002417	260140	002270		PUSHJ PDP,GETARG	IGET 6 ARGS FROM USER AND STORE
2592						; SAVE STARTING ADDRESS INCREMENT(LH OF TAC)
2593						I AND USER AC NUMBER(IN CASE OF ERROR RETURN)
2594	aa 040a	200047	agagag		MOVE TAC, SGANAM (PR	; SETUP ACS, DEVDAT TO DDB OG) ;STORE FILE NAME FOR LOW SEG
2596			002247		MOVE TAC, JBTPRG(1	
2597					PUSHJ PDP, GETJB	
2598		554123		0.011	HLRZ TAC1, (PDP)	JGET STARTING ADDRESS INCREMENT (# IF RUN COM)
2599						
2670				IFN FT2		
2621					EXTERN CHKMED	
2602		303120			CAILE TAC1.1	IIS START INCREMENT 2 OR 1?
2673	902425	260140	001522'		PUSHJ PDP,CHKMED	IND, CHECK TO SEE IF THIS IS SHARABLE SEC . AND IF YES, SET MEDDLE BUT FOR THIS WEER
2624						I AND IF YES, SET MEDDLE BIT FOR THIS USER I SO UWP CANNOT BE TURNED OFF AND CORE F≏R HIGH
2606						; CANNOT BE INCREASED OR DECREASED (TAC1 PRESERV
26.77				>		t succes be transmomente ou presente prover second
6.48	302426	273127	8023341		ADDB TAC1, JOPSA(JD	AT) ;ADD STARTING ADDRESS TO BOTH
679						; SO THAT <control>C START WILL START</control>
2616						; PROGRAM AT SAME STARTING ADDRESS
2611			019200		HRLI TAC1, USRMOD	ISET USER MODE BIT IN PC
2612	202430 202431	261140	001662		PUSH POP,TAC1 JRST USRXIT	IPUT ON PD LIST Iand go to return to user as if from uuc

COMCON - COMMAND DECODER AND SAVEGET ROUTINES - V433 MACRO,V36 19:02 4-JUN-69 PAGE 93 Savget - Save,get,r,run commands and run,getseg uuos

2614				;000 To				
2615				JCALL IS	3 THE SAME AS FOR RUN	UUO EXCEPT THAT OK RE	TURN IS SKIP RETURN	N
2616				JIF ERRO	DR RETURN HAS HALT IN	LH, STANDARD CONSOLE	MESSAGE IS PRINTED	AND JOB STOPPE
2617								
2618					INTERN UGTSEG,UGTERR			
2619	002432			UGTSEG:				
262Ø								
2621				IFN FT2F	RELIC			
2622					EXTERN UGETHI			
2623	002432	254000	000000		JRST UGEȚHI	IN SECCON		
2624				>				
2625	002433	201040	000013	UGTERR:	MOVEL TAC, ILUERR	IILLEGAL UUO ERROR		
2626	002434	260140	003030'		PUSHJ PDP,SGRELE	ISEE IF USER WANTS		
2627	ØØ2435	254000	000000		JRST UUDERR	INO, PRINT ILLEGAL	. 000	

			GET,R,RUN		·	
2628				ROUTIN	NE TO SETUP ACS, RESET IC	, AND SETUP LOWER CORE LOCATIONS
2629						D IOWD OR PP IF DTA OR DSK)
2630 2631					SET TO IOWD FOR THIS SI	IZE CORE
2632				ICALL:	JSP TAC1,SG1	TTO DEVICE HAR RANNE
2633				1	ALWAYS RETURN HERE, UNL	DATA BLOCK(BUT NOT INITED, UNLESS FT2REL=2)
2634				;	SO THAT INIT NOT NECESS	SARY IF SEG ALREADY KNOWN(NO DTA QUEUEING)
2635				•		WORD(DEVMOD) RETURNED IN AC TAC1
2636				;	IF DISK SYSTEM	WORDTDEAMODY REFORMED IN ACTACT
2637					I BION BIOTEN	
2638					INTERN SG2,SG3,SG4	ICALLED FROM SEGCON
2639					EXTERN USRDDT, USRREL, JC	
264Ø					EXTERN TTYFNU, JOBSVM, IA	
2641						
2642	002436	265040	001605'	SG1:	JSP TAC, MONSTR	SETUP PROG, PDP, JDAT, ITEM=JOB NUMBER
2643						; PUT TAC1 ON END OF PD LIST(EXEC MODE PC,
2644						I SO ERROR MESSAGES WILL ALWAYS PRINT(SEE SGREL
2645						
2646			002415		PUSHJ PDP, RESET	IRELEASE ALL DEVICES
2647	002440	201040	000016	SG2A:	MOVET TAC, DR	JOUMP MODE 16(DUMP BY RECORDS
2648 2649						I IN CASE THIS IS MAGTAPE)
	002444	202047	000010			
		402007			MOVEM TAC,SGAMOD(PROG) SETZM SGAEND(PROG)	ISTORE FOR OPEN UUD
2652			0000005		SETZM SCAPENAL/DOOCN	10 END OF DUMPE MODE COMMAND LIST For delete
2653			000026		SETZM SGAREN+1(PROG) SETZM SGAREN+2(PROG)	JFOR DELETE
2654			0023171		HLLZS JOBCOR(JDAT)	JØ THIRD ARG IN JOBDATA AREA(SO CHKARG WILL
2655					SEE25 BOBOOK BART	WORK ON FIRST CALL(SAVE AND GET)
2656	002446	402007	000012		SETZM SGAHED(PROG)	ICLEAR BUFFER HEADER ARG, FOR OPEN UNO
2657				IFE FT2		JOELAN BOTTEN HERBEN RAG, TON OPEN 000
2658						TRY TO ASSIGN DEVICE, SINCE IT MUST BE DONE
2659				>		
266Ø				IFN F12		
2661	002447	200047	000011		MOVE TAC, SGADEV(PROG)	PHYSICAL OR LOGICAL DEVICE NAME
2662	002450	260140	001600'		PUSHJ PDP, DEVSRC	FIND DEVICE AND SETUP DEVDAT TO DDB
2663						I DO NOT INIT DEV SINCE IO MAY NOT BE NECESSARY
2664						I DO NOT WANT TO WAIT IN DTA SYSTEM
2665						I TAPE QUEUE IN 10/40 SYS
2666				>		
2667 2668	002451	254000	0024731		JRST SGERRA	INOT AVAILABLE
						DEVICE INITED (OR FOUND)

2669				COMMON	I FXIT FROM SAVHGH AND GE	THGH ROUTINES(HIGH SEG SAVE AND GET)
2670				ISC THA	T SGA LOCATIONS ARE R	ESTORED TO ORIGINAL VALUES FOR LOW SEG
2671			-			
	002452	200047	@@@@@@	SG3:	MOVE TAC, JOBFF (JDAT)	IFIRST FREE LOC IN JOB(SET FROM LH OF
2673	0.00 157					I JOBSA WHICH IS SET BY LOADER
			777777		VOVEI TAC, -1(TAC)	IMAKE LAST LOC TO SAVE OR GET(MAKE 0=777777)
2675 2676	002454	336.270	200000		SKIPN USRDDT	JUSER DDT IN USE(IF YES, SAVE ALL OF CORF
2677	002455	260140	000000			I SO HIS SYMBOLS WILL BE INCLUDED
2678		200140	0000000 0000000		PUSHJ PDP, IADRCK	ING, ADDRESS TOO SMALL OR TOO LARGE?
2679	102400	200040	000020		MOVE TAC, USRREL	IYES, DUMP ALL OF CORE RATHER THAN GIVE
	002457	213000	000001		NONNE 11-	ADDRESS CHECK MESSAGE-HIGHEST REL.ADR.
	002460				MOVNS TAC	I-HIGHEST ADR TO SAVE OR GET
2682			002460'		ADDI TAC,JOBSVM HRLI TAC,JOBSVM	ILOWER CORE NOT DUMPED
2683			000013		MOVSM TAC,SCADMO/OPACA	FIE FIRST LOC-1 TO BE DUMPED Istore Iowd word of this size core
2684	002463			SG4:	NOTO FACIOGADME(PRUG)	STURE TOWN WORD OF THIS SIZE CORE
2685				IFN FTD	ISK. <	
	ØØ2463	200106	000004) RETURN DEVICE CHARACTERISTICS (IF DISK S
2687	002464				TLNE TAC1, DVDSK	JIS THIS DEVICE A DISK?
						TO THIS DEVICE A DISKI
2688	rø2465	204047	600007		MOVS TAC, SGAPPN (PROG)	IYES, MAKE SURE FOURTH WORD IS PROJ,PROG NO.
2689				>		THE TRACE DONE FOORTH WORD IS PRUG, PRUG NU.
2690	ØØ2466	206047	000003		MOVSM TAC, SGALEN(PROG)	INO, MAKE SURE FOURTH WORD IS IOWD FOR DECTAPE
2691						SINCE DECTAPE USES RH TO COMPUTE LENGTH IN K
2692	000447	77/017	00000			J FOR BOTH SAVE AND GET
2693		336247			SKIPN TAC, SGAEXT(PROG)	IDID USER SPECIFY AN EXTENSION ?
		205640	009000 889000		MOVSI TAC, SAVDMP	INO, USE SAV OR .DMP
	002471	202047			MUVEM TAC, SGAEXT(PROG)	IAND STORE FOR LOOK UP OR ENTER
2697	x 02472	200140	aacaaa		POPJ PDP,	
2698						
2699				· C D D O P	ON INIT OD DEVIGE CENTER	
2700				ICRRUK	ON INIT OR DEVICE SEARCH	
2701					INTERN SGERRA	
2702					INICAN DUCKKA	ICALLED FROM SEGCON
2723	002473	322300	0025741	SGERRA	JUMPE DEVDAT, SGERR1	
2704	202474	202303	000000	JULINA,	MOVEM DEVDAT, (PDP)	WAS DEVICE FOUND, BUT JUST UNAVAILABLE?
2705	002475	201040	000011		MOVEL TAC, DNAERR	JYES, SAVE DOB ADDRESS FOR MESSAGE(ERNAM)
2706	002476		0036301		PUSHJ PDP,SGRELE	JERROR CODE IN CASE RUN UUD(DEVICE NOT AMAILABLE JRETURN TO USER IF RUN UUD
2707	-					J OR FIND TTY AND PRINT ?CRLF
2708	002477	260140	700000		PUSHJ PDP, ERNAM	PRINT DEVICE NAME USING (PDP)
2709	002500	265640	002410		JSP TAC, PHOLD	ISTART TTY AND STOP JUB
2710	ØØ2501	202351	752120		ASCIZ / NOT AVAILABLE/	I U A LU A
	ØØ25Ø2	406550	144630			
	aø25ø3	406051	442420			
2711						
2712		201040	000012	SGFR91:	MOVEL TAC, NSDERR	FERROR CODE IN CASE RUN UUD(NO SUCH DEVICE)
	PØ25P5	262140	FØ3C30 ·		PUSHJ PDP,SGRELE	RETURN TO USER IF RUN UUO
2714						; OR FIND TTY AND PRINT ?CRLF
2715		265040	002500'		JSP TAC, PHOLD	START TTY AND STOP JOB
2716	002507	472364	051652		ASCIZ /NO SUCH DEVICE/	
	002510 002511	416204	Ø42212 3424ØØ			

				VECEE DA		
COMCON	- COMMAN SAVGET	- SAVE,G	ET,R,RUN	COMMAND	UTINES - V433 MACRO,V: S and run,getseg uuos	36 19:02 4-JUN-69 PAGE 96
2717 2718					E TO GET FILE FROM DEVIC	
2719				1	MOVE ITEM, JOB NUMBER	
2720				3	IFN FTDISK, <move de<="" tac1,="" td=""><td>EVMOD(DEVDAT) ;DEVICE CHAR,></td></move>	EVMOD(DEVDAT) ;DEVICE CHAR,>
2721				1	PUSHJ PDP,GETJB	
2722 2723				1	RETURN ONLY IF EVERYTHIN	NG UK
2724						
2725				EXTERNA	L JOBCOR, JOB, CPOPJ, JOBS4:	1,JOB41
2726						
2727	002512			GETJB		
2728				IFN FT2		
2729 2730	002512	260140	000000		EXTERN GETHGH Pushj Pdp,Gethgh	SEE IF HIGH SEG ALREADY EXISTS AND BEING SHARED
2731	002012	206140	0000000			IF NOT, TRY TO LOOKUP AND READ IN HIGH FILE
2732						I IF , SHR DOESN'T EXIST, TRY , HGH, IF NEITHER-SKIP RE
2733				RN		
2734						; TAC1=DEVMOD(DEVDAT) IF DISK(DEV CHAR,)
2735	002513	254000	002533'		JRST LOWFIN	;HIGH SEG NOW IN CORE AND NO LOW FILE NEEDED ; LOW FILE NEEDED
2736 2737						J EITHER BECAUSE NOHIGH SEG
2738						J ORHIGH SEG ALSO NEEDS LOW FILE
2739				>		
2740	002514	076000	000000		LOOKUP Ø,SGANAM	ILOOKUP LOW SEG FILE(EXT=SAV,DMP OR LOW(IF HIGH SEG
2741						; REQUIRES LOW SEG AND USER DID NOT TYPE EXT)
2742 2743						; MODE≖SAVMOD SO DECTAPE SERVICE WILL RETURN } IOWD IN E+3(TEMPORARY)
2744	002515	254000	003012'		JRST NOFILE	JGO PRINT FILE.EXT NOT FOUND
2745	002516	574107	000003		HLRE TAC1, SGALEN (PROG)	I-NO, OF WORDS IN FILE
2746	002517	260140	0027531		PUSHJ PDP, CKIOWD	ICHECK USER'S SUPPLIED CORE ARG TO MAKE SURE NOT
2747						ITOO SMALL, RETURN LARGER OF FILE SIZE OR CORE ARG
2748 2749	002520	260140	002776' 000004		PUSHJ PDP, GETCOR	JOK, TRY TO GET CORE
2750	002521 002522	200106 213000	0000021		MOVE TAC1, DEVMOD (DEVDAT) MOVNS TAC) JDEVICE CHARACTERISTICS
2751	002523	271040	002461		ADDI TAC.JOBSVM	J-WORD COUNT FOR ALL USERS CORE
2752	002524	603100	000020		TLNE TAC1, DVMTA	IMAG TAPE?
2753	ØØ2525	506047	000003		HRLM TAC, SGALEN (PROG)	IYES, USE USER-SPECIFIED CORE ARGUMENT
2754	002526	553007	000000		HRRZS JOBPD1(JDAT)	ITURN OFF USER MODE PC FLAG IN CASE THIS
2755 2756						JIS A RUN UUD, SO ERRORS WILL NOT TRY TO RETURN TO USE
2757	002527	260140	ØØ2557'		PUSHJ PDP,SGD0	FREAD IN FILE INTO LOW SEGMENT
2758	02530	066000	002003		INPUT PSGALEN	JEXECUTED FROM SGDD
2759	PØ2531	200047	002330'		MOVE TAC, JOBS41(JDAT)	IRESTORE USER UUD JSR LOC
2760	002532	202047	002327		MOVEM TAC, JOR41(JDAT)	ISAVED BY SAVE
2761	002533	550047	002445	LOWEIN:	HRRZ TAC, JOBCOR(JDAT)	ICORE ARG FROM PREVIOUS SAVE(THIS MONITOR
2762 2763	ØØ2534	336000	000001		SKIPN TAC	I ALWAYS STORES SOMETHING) IS THIS AN OLD FORMAT FILE WITH NO CORE ARG TO SAVE?
2764	002535	200040	002456'		MOVE TAC, USRREL	IYES, USE ASSIGNMENT MADE WEN LOW FILE READ IN
2765	002536	260140	002756		PUSHJ PDP, CKSARG	IRETURN ONLY IF USER'S SUPLLIED ARG IS 2 OR NOT
2766						I SMALLER THAN SAVE CORE ARG, RETURN LARGER
2767	002537	260140	0027761		PUSHJ PDP, GETCOR	ITRY TO GET THIS AMOUNT OF CORE
2768	002540	200040	0025351		MOVE TAC, USRREL	HIGHEST LOC ASSIGNED TO LOW SEG
2769	002541	542047	0025331		HRRM TAC, JOBCOR(JDAT)	ISET INITIAL CORE ASSIGNMENT IN JOB DATA AREA FOR

COMCON	- COMMAND DECODER AND SAVEGET ROUTINES - V433 SAVGET - SAVE,GET,R,RUN COMMANDS AND RUN,GETSEG		19:02 4-JUN-69 PAG	E 96-1	
2770 2771 2772		1	USER TO USE TO RESE PROGRAM IS RESTARTE FALL INTO SGREL		TIAL SETTING WHEN

COMCON - COMMAND DECODER AND SAVEGET ROUTINES - V433 MACRO,V36 19102 4-JUN-69 PAGE 97-1 Savget - Save,get,r,run commands and run,getseg uugs

2826 2827	002573	201040	000006	MOVEL TAC, TRNERR	IYES, ERROR CODE IN CASE THIS IS RUN UUO
2828 2829	002574	260140	DUI40 003030' PUSHJ PDP,SGRELE #RELEASE) (TRANSMISSION ERROR) IRCLEASE DEVICE AND ERROR RETURN TO USER IF RUN UUO	
283Ø 2831	002575 002576 002577 002600 002600		002506' 147246 351622 042644 200000	JSP TAC,PHOLD ASCI₹ /TRANSMISSION ER	I OR FIND TTY AND PRINT ?CRLF ISTART TTY AND STOP JOB Ror/

	SAVGET	- SAVE,G	E I , R , RUN	COMMAND			
2832							SAVE(LOW SEG ONLY)
2833				ICALL:	MOVE DE	VDAT, DEVICE ADR,	
2834				1	MOVE PF	ROG, JOBADR.	
2835				1	MOVE I	TEM,JOB NUMBER	
2836				;	PUSHJ F	PDP, EXPAND	
2837				;	ERROR F	RETURN, ADR. CHECH	COR NEED CORE BUT NOT CURRENT USER (COMMAND)
2838				;		DECODER	EXPANDING AFTER USER HAS REDUCE CORE)
2839				1	OK RETU	JRN, CORE EXPANDED	
2840						AVE AND COMMAND DE	
2841				;START,	CSTART,C	DT, REENTER, SAVE, S	SSAVE COMMANDS IF CORE STILL COMPRESSED
2842							
2843	002602	574747	000003	EXPAND:	HLRE AC		J-LENGTH OF FILE
2844	002603	213000	000017		MOVNS A		J+LENGTH OF FILE
2845	002604		0025231		ADDI AC		ADD FIRST LOC-1 TO FORM HIGHEST LEGAL ADR.
2846	002605		000007		HRLI AC	3,PROG	PUT PROG IN LH FOR COMPARE
2847							I AC3 SET FOR ADDRESS CHECKING BELOW
	ØØ2606	331247	002364'		SKIPL		IF FIRST LOC IS POSITIVE
2849			002741'		JRST		IOLD FORMAT, SO DONT EXPAND
2850	002610	553200	000001		HRRZS		LOOK AT 1ST WORD OF FILE
	002611		002564'		CAILE	TAC, JORDDT	IS IT BELOW JOBJDA?
2852	002612		0026331		JRST		;NO. NEW COMPRESSED FORMAT
2853	002613	302040	000000		CAIE	TAC, JOBSAV	IS JOBODT THE DATA WORD?
2854	002614	254800	002633'		JRST E)	(PND1	ING, EXPAND
	002615		ØØØØØØØ		SKIPN .	JOBSV3(JDAT)	11S THE SAVE FILE FROM CONVERT?
2856							; CONVERT DOES NOT ZERO COMPESS
2857							; IT JUST WRITES ENTIRE FILE WITH 1 IOWD IN FRON
2858	ØØ2616	364740	002741		SOJA AC	3,36001	IYES, GO BLT DATA DOWN AS IF OLD DISK SAVE FILE
2859	02010						; (NON-COMPRESSED)
	002617	561040	000000		HRROI	TAC, JOBSD1	IYES, CHANGE TO IOWD 1,JOBSDD
2861		250247	002676		EXCH	TAC, JOBSV(PROG)	IZAP, THE IOWD IS FIXED
2862	002621		000001		HLRES 1	TAC	IWORD COUNT OF IOWD
2863	002622		0026331		AUJE TA	AC, EXPND1	JUST 1 DATA WORD - THROUGH
2864		205041	000021		MOVSI	TAC, 1(TAC)	MAKE IOWD N-2, JOBSAV
2865		322040	002631'			TAC, EXPZ	
	202625		0026131		HRRI TA	AC, JOBSAV	ISO NEXT DATA WDS WILL BE SKIPPET
	002626		0026201			AC1, JOBSV(PROG)	
2868		202642	000002		MOVEM 1	TAC,2(TAC1)	;STORE IN COMPRESSED DATA
	202630		002633'		JRST E	(PN01	
	ØØ2631		777776	EXPZ:	MOVSI		
	02632		PØ2626'		ี ม โพ้ 77	AC, JOBSV (PROG)	

CONCON	COMMAN					~	v477 v4000 V	
COMCON			R AND SA				N,GETSEG UUOS	36 19:02 4-JUN-69 PAGE 99
2872				CONF U		0.01		
2873	002633	200040	0030471	FYDND1	ERE I		D THE ACTUAL EXP/	V] FIT WAS READ INTO JOBSV
2874		200120	0000001	EVENDI:	MOVE	TAI	TAC1,@TAC	
2875			0000002	EYDLD1.			AC1,TAC1	JFIRST IOWD
2876		305640						ADDRESS OF IOWD
2877		344640			CAIG		AC1, JOBSAV	ILEGAL?
2878		574640			HLRE		AC1, TOOLOW	INO. DELETE DATA WHICH IS TOO LOW
2879		213000			MOVN		AC1,TAC1 AC1	IYES, GET WORDCOUNT
2880		506640	0000010		HRLM			J+N
2881		271055			ADDI		AC1, TAC1	ICONVERT IOWD TO +N IN LH
2882		313040			CAML		TAC,1(AC1) TAC,AC3	ADDRESS OF NEXT IOWD
2883		254000	002750'					IN BOUNDS?
2884		271115	0000000		JRST		SGDOER	INO. COMPLAIN
2885		250120	000001		ADDI EXCH		TAC1, (AC1)	IYES, CHANGE RH OF IOWD
2886		321100	002635'		JUMPI			JMAKE IT XWD +N,A+N-1 AFTER DATA BLOCK
2887		261140	0000001		PUSH			ICONTINUE IF NEXT THING IS AN IOWD
2888	002652		000001					ISAVE DATA LOCATION
2889	002002	556666	000001		HRRZ		TAC, @TAC	STOP REAL LOCATION NEEDED
	002653	660040	001777		TRÖ		TAC,1777	JMAKE IT NK-1
2891	002654	554100	000007		HI RZ	TAC	1, PROG	IPRESENT SIZ OF LOW SEG
2892			000002					IS THERE ENOUGH?
2893	002656	254000	002662'		JRST			JYES,
2894	002657		002561					IND, IS TIS THE CURENT JOB?
2895	PØ2660	254000	002150		JRST			INO, GIVE ERROR RETURN, MUST BE COMMAND ~ECODER
2896	-				1	••••		J DOING EXPAND AFTER USER HAS REDUCCED CORE
2897	002661	260140	002776'		PUSH.	J.		IYES, GET IT
2898			000002	EXPCOR:		•	PDP, TAC1	
2899	002663		000002		MOVE	ī	AC1,@TAC1	;TOP DATA LOC
2900	002664	505655	000001		HRLI	-		ISET TO ZERO TO TOP OF CORE
29Ø1	002665	541655	000002		HRRI		AC1,2(AC1)	Joan fo cano fo for of bone
2972	002666	402015	777777		SETE		-1(AC1)	
2903	ØØ2667	505040	000007		HRLI			RELOCATE TOP LOC OF JOB
2904	ØØ2670	251660	000001		BLT			JZAP, CORE IS Ø FROM HERE OP
2905	002671	561060	000002		HRRO			JEROM DATA POINTER
2906	002672	550641	000000	EXPLP2:				TO DATA POINTER
2907	002673	271647			ADDI			IRELOCATE
2908	002674	554701	NOOVOO		HLRZ			JWORD COUNT
2909	002675		000001		SUBI			JPOINT TACI TO PREVIOUS LOWD
291Ø	002676	402001	QUUUUU		SETZ			JZERO THIS LOWD
	\$02677	374000	000001		SOSA			POINT TO DATA
2912	802700	370020	000015	EXPLP3:			AC1	
2913			0023321			E A C		DON'T STORE DATA BELOW JOBSOD
2914		374000			SOSA	TAC		
2915	202703		0000000		POP			IMOVE A DATA WORD
2916	202734		nøner1		SETZ			JZERO WHERE IT CAME FROM
2917			2027201		SOJG		AC2, EXPLP3	JLOOP IF MORE DATA
2918	ØØ2726	313100	003067'		CAMLE		TAC1, EXWD PRAG, J	
2919	002707	254000	0026721		JRST			INO, DO NEXT BLOCK
2920	ØØ271Ø	250707	002701		FXCH			;YES, ZERO JORSDD
2921	202711	202707	002611'			A A C	2, JORDOT (DAT)	ISET USER DOT STR ADR
2922	002712	254000	002747		JRST	SGD		
2923								FROM THIS USER
2922					MÛVEN JRST	A AC SGD	02	JSET USER DOT STR ADR IAND SETUP USRDDT IN MONITOR PROTECTED ; FROM THIS USER

CONCON	SAVGET	- SAVE,G	ET,R,RUN	COMMAND	S AND RUI	V433 MACRO,V N,GETSEG UUOS	36 19:02 4-JUN-69 PAGE 100
2924				;THIS R	OUTINE W	ILL DELETE ALL D.	ATA FROM A COMPRESSED FILE
2925				;WHICH	IS BELOW	JOBSOD (PROBABL	Y WRITTEN BY TENDUMP)
2926							
2927	002713	57472Ø	000001	TOOLOW:	HLRE	AC2, @TAC	WORDCOUNT OF OFFENDING IOWD
2928	002714	274640	000016		SUB	AC1, AC2	ADDRESS+N
2929	002715	307640	002710		CAIG	AC1, JOBSDO	IS ANY DATA IN IT LEGAL?
293Ø	002716	344040	002727		ALOA	TAC, NXIOWD	INO, TEST NEXT IOND
2931	002717	275640	002715		SUBI	AC1, JOBSDD	IYES, NUMBER OF WORDS TO KEEP
2932	002720	213000	000016		MOVNS	AC2	ITOTAL NUMBER OF WORDS
2933	002721	274700	000015		SUB	AC2, AC1	INUMBER OF WORDS TO DROP
2934	002722	507000	000016		HRLS	AC2	JINTO BOTH HALVES
2935	002723	270720	000001		ADD	AC2, OTAC	INEW IOWD FOR DNLY GOOD DATA
2936	002724	271056	000000		ADDI	TAC, (AC2)	POINT TAC TO LAST BAD DATA LOC
2937	002725	202720	000001		MOVEM	AC2, @TAC	STORE UPDATED IOWD OVER IT
2938	002726	254000	0027331		JRST		JGO BLT OVER BAD DATA
2939	002727	274040	000016	NXIOWD:		TAC, AC2	POINT TAC TO NEXT IOWD
2940	002730	550660	000001			AC1, @TAC	JGET ADDRESS
2941	002731	305640	0026171		CAIGE	AC1, JOBSD1	JLEGAL?
2942	002732	344640	0027131		AUJA		IND, AT LEAST PART OF THE DATA IS LOW
2943	002733	205120	000001	IOWBLT:		TAC1,@TAC	IYES, KEEP THE ENTIRE IOWD DATA
2944	002734	541107	002632				TACI IS A BLT POINTER
2945	002735	275040	0027341			TAC, JOBSV	JRH OF TAC IS AMOUNT BEING DELETED
2946	002736	275741	000000				JAC3 POINTS TO TOP OF DATA READ IN-(N)
2947	002737	251120	000017		BLT	TAC1,@AC3	IMOVE ONLY GOOD DATA DOWN
2948	002740	254000	0026331				JOO EXPAND THE GOOD DATA

COMCON	- COMMAN SAVGET	D DECODE - Save,G	R AND SA ET,R,RUN	VEGET RO I COmmand	UTINES - V433 MACRA.V S AND RUN,GETSEG UUOS	36 19:02 4-JUN-69 PAGE 101
2949 2950 2951	002741	201047	002711'	\$GD01:	MOVEL TAC, JOBDOT (PROG)	;MOVE EVERYTHING DOWN)MUST RE NON-COMPRESSED OSK FILE
2952 2953 2954 2955	2952 002743 335007 002735 2953 002744 505041 00000 2954 002745 275740 002742 2955 002746 251060 000017		HRLI TAC,JOBSVD(TAC) SKIPGE JOBSV(JDAT) HRLI TAC,JOBSVD(TAC) SUBI AC3,JOBSVD RLT TAC,@AC3	OR CONVERT SAVE FILE JIS THIS CONVERT FILE(FIRST WORD IS IOWD)? JYES, ALSO SKIP OVER IOWD		
2956 2957 2958	002747 002750 002751	747 354003 000000 750 262140 000001	000000 000001 000127 '	SGDO2: SGDOEK;	AOSA (PDP) POP PDP,TAC SETZM JORHCU(JDAT)	ISET FOR OK RETURN
2959 2960	002752		000000			ICLEAR LH AND SET HIGHEST USER CHAN, IN I USE TO Ø(WHERE IT SHOULD BE ANYWAY) IERROR HETURN OR OK RETURN

COMCON					UTINES - V433 MACRO,V S AND RUN,GETSEG UUOS	36 19:02 4-JUN-69 PAGE 102
2961 2962 2963 2964 2965 2966 2966 2966 2968				;OR GRE ;CALL: ; ;	ATER THAN OR EQUAL TO IOU HLRE TAC1,-NO, OF WORDS PUSHJ PDP,CKIOWD RETURN WITH LARGER OF 2	CORE ARG AND CHECK TO SEE IF Ø WD USED TO SAVE OR GET FILE IN FILE POSITIVE NOS, IN TAC(1777 ORED IN) RG SUPLLIED BY USER IS TOO SMALL
2969					EXTERN JOBSVM	
2970 2971 2972 2973 2974 2975			ØØ2604' ØØØØØ3 ØØØØØ2		MOVEI TAC,JOBSVM HRRM TAC,SGALEN(PROG) SUB TACJTAC1	}FIRST LOC~1 READ OR WRITTEN IN USER AREA IRESTORE RH TO JOBSAV AFTER LOOKUP]HIGHEST LOC=FIRST LOC−1+LENGTH OF FILE J FALL INTO CHSARG
2976 2977 2978 2979				JOR GRE JCALL: J	PUSHJ PUP, CKSARG	RE ARG FOR PREVIOUS SAVE JWRITTEN WHEN FILE SAVED
298Ø 2981				; ;Called		IN AC TAC, ONLY IF USER ARG NOT TOO SMALL Data area loaded from file(jobcor) or high seg
2982 2983 2984					INTERN NROOM1	CALLED FROM SEGCON
2985 2986 2987 2988 2989 2989	002760 002761	435040 317047 334047 336007 263140	000015 000015	ROUTIN	SKIPA TAC,SGANEW(PROG) SKIPN SGANEW(PROG) POPJ PDP, E TO PRINTE #K OF CORE NE	INO, DID USER SUPPLY ONE? INO, RETURN LARGER OF TWO EEDED
2992 2993				;;	PUSHJ PUP, NROOM1 NEVER RETURN	
2994 2995 2996 2997 2998	002765	260140	003030'		PUSHJ POP,SGRELE	IYES, ERROR, USER'S SUPPLIED CORF ARG TON SYALL JERROR CODE IN CASE THIS IS RUN UUD(NOT RNOUGH CORET IRELEASE DEVICE AND ERROR RETURN TO USER IF RUN UUDT J OR FIND TTY AND PRINT PORLF
2999 3070 3071 3072 3073	002767 002770 002771 002772 002773 202774	242040 260140 265040 455011 416372 472130	777766 ØØ1333' ØØ2575' 7431ØØ 24250Ø 542212		ISH TAC-12	ICONVERT TO NO, OF 1K BLOCKS-1 IADD 1 TO TAC AND PRINT DECIMAL ISTART TTY ADN STOP JOP
2989 2990 2991 2992 2993 2994 2995 2995 2995 2995 2998 2997 2998 2999 3020 3021 3021	002763 002764 002764 002765 002767 002770 002771 002772 002773 202773	263140 261140 201040 260140 260140 260140 260140 265040 455041 416372	000001 000001 000010 003030 000000 777766 001333 002575 743100 242500 542212	;ROUTIN ;CALL; ; ; NROOM1: NOROOM;	POPJ PDP, E TO PRINTE #K OF CORE NE MOVE TAC,HIGHEST REL. US PUSHJ PUP,NROOM1 NEVER RETURN PUSH POP,TAC MOVEI TAC,NECERR PUSHJ POP,SGRELE HRRZ TAC,(PDP) LSH TAC,-12 PUSHJ PUP,DECP1 JSP TAC,PHOLD	IND, RETURN LARGER OF TWO EEDED SER ADR. JYES, ERROR, USER'S SUPPLIED CORE ARG TON SMALL IERROR CODE IN CASE THIS IS RUN UUD(NOT ENOUGH C. IERLEASE DEVICE AND ERROR RETURN TO USER IF RUN I OR FIND TTY AND PRINT PCRLF IGET AMOUNT OF CORE REQUESTED ICONVERT TO NO, OF IK BLOCKS-1 IADD I TO TAC AND PRINT DECIMAL ISTART TTY ADN STOP JOR

COMCON					UTINES - V433 S AND RUN,GETSEG		6 19:02	4-JUN-69	PAGE	103			
3094 3095													
3005				1 DOUT IN									
					E TO ASSIGN CORE			- 3 <u>E</u> G					
3007				;CALL:	MOVE PROGILOW SE	EG RELOCA	TION						
3008				;	HRR TAC, HIGHEST	LOC DESI	RED						
3029				;	PUSHJ PDP, GETCOR	۲ ^۲							
3010				1	RETURN ONLY IF A	SSTONED							
3011				,	REPORT OVER IN P	0010420							
3012					INTERN GETCOR								
3013													
3014	002776	552047	000014	GETCOR:	HRRZM TAC, SGACOR	R(PROG)	ISOTRE CO	DRE ARG F	OR COR	E UUO IN	USER AC		
3015	002777	261140	000001		PUSH PDP.TAC		ISAVE IN	CASE OF	FRROR				
3016	003000	047600	000011		CALLI SGACOR, 11		DO CORE		210101				
-												TRATUS F	0.0
3017	003001	254000	002764'		JRST NOROOM			ILABLE, P			-		UR
3018	ØØ3ØØ2	254000	002022'		JRST TPOPJ		JOK, REMI	DVE TAC F	ком РО	LIST AN	D RETURN		

COMCON	- COMMAN SAVGET	- SAVE,	ER AND SA Get,r,run	VEGET RO COMMAND	UTINES - V433 MACRO, S AND RUN,GETSEG UUDS	V36 19:02 4-JUN-69 PAGE 104
3019 3020				ROUTIN	E TO PRINT NOT A SAVE F	ILE IF WRONG FORMAT FILE DETECTED
3021 3022				INTERN	GETERR	
3023 3024 3025	ØØ30Ø3 ØØ3ØØ4	201040 260140	000007 003030'	GETERR:	MOVEI TAC,NSFERR PUSHJ PDP,SGRELE	JERROR CODE IN CASE THIS IS RUN UUD(NOT SAVE FILE) JRELEASE DEVICE AND ERROR RETURN TO USER IF RUN UUD
3026 3027	003005 003006 003007 003010 003011		002771' 420202 153212 146212 000000		JSP TAC,PHOLD ASCI≹ ∕NOT A SAVE FILE∕	J OR FIND TTY AND PRINT ?CRLF JSTART TTY AND STOP JOB
3028 3029 3030 3031 3032				;ROUTIN	E TO PRINT FILE NOT FOUN Nofile ;Called from se	
3033 3034	003012	201040	300000	NOFILE:	MOVEI TAC, FNFERR	ERROR CODE IN CASE THIS IS RUN UUO(FILE NOT FOUND)
3035 3036 3037	003013	260140	0030251		PUSHJ PDP,SGRELL	; CHANGE ERROR CODE TO DISK ERROR CODE IF DEV IS DSK IRETURN DISK LOOKUP OR ENTER ERROR CODE IF DSK ; RELEASE DEVICE AND ERROR RETURN TO USER IF HE WANTED
3038 3039 3040 3041 3042 3043 3043 3044 3045	203014 003015 003016 003017 003020 003021 003022 003023 003023	200107 260140 260140 510107 260140 265040 202351 432372 000000	000000 001661 002041 000001 003015 003005 752100 547210 000000		MOVE TAC1,SGANAM(PROG) PUSHJ PDP,PRNAME PUSHJ PDP,PRPER HLLZ TAC1,SGAEXT(PROG) PUSHJ PDP,PRNAME JSP TAC,PHOLD ASCIZ / NOT FOJND/	; OR FIND TTY AND PRINT ?CRLF ;PRINT FILE NAME ;PRINT PERIOD ;PRINT EXTENSION ;START TTY AND STOP JOB

COMCON	- COMMAN SAVGET	D DECODE	R AND SA Set,r,run	VEGET ROU COMMANDS	UTINES S AND	S - V433 Run,getseg	MACRO UUOS	• • • 3	6 19:02 4-JUN-69 PAGE 105
3046 3047 3048 3049 3050 3051 3052 3053				; IF THIS ; IF USEF ; IN LH (; AND RE1 ; CALL; ;	S IS A R UUO, OF ERC TURN T MOVEI PUSH	A MONITOR CC GIVE ERROR DR RETURN WC TO CALLER SC TAC,ERROR J PDP,SGRELE	MMAND R RETU RD, I CAN CODE(OR JRN N WI ADD DEF	ERROR AND CHECK TO SEE USER UUO TO USER UNLESS THERE IS A HALT HICH CASE FIND TTY, PRINT ?CRLF MORE INFO TO ERROR MESSAGE AND STOP JOB INED IN S.MAC) WANTS ERROR RETURN ON RUN AND GETSEG UUOS
3Ø54 3Ø55						N JOBPD1, JC			
3056 3057 3058	@@3@25			SGRELL:					ILOOKUP OR ENTER FAILURE
3059	003025	200106	000004	IFN FTDI	MOVE	TAC1, DEVMOD	(DEVn	AT)	IS THIS DEVICE A DISK?
3060 3061 3062	ØØ3026 ØØ3027	603100 550047	200000 000001	`		TAC1, DVDSK TAC, SGAEXT(PROG)	i	YES, RETURN DISK SERVICE ERROR CODE
3Ø63 3Ø64	003030 003031	200107 607100	002526' 010000			TAC1, JOBPD1 TAC1, USRMOD			IGET FIRST PC ON PD LIST IS IT IN USER MODE(IE USER UUD)?
3065 3066	003032	254000	003050'		JRST	SGRLE1			IND, MUST BE MONITOR COMMAND OR CALLER OVERLAYED I RELEASE DEVICE, FIND TTY, AND RETURN TO CALLER
3Ø67 3Ø68	ØØ3Ø33 ØØ3Ø34	261140 540600	000001 000002			PDP,TAC 100,TAC1		1	SAVE ERROR CORE JADDRESS OF RETURN AFTER RUN OR GETSEG UUD
3069 3070	ØØ3Ø35 ØØ3Ø36	260140 554100	002275' 000001			I PDP,GETWDU TAC1,TAC			IGET ERROR RFTURN WORD FROM RUN OR GETSEG UUO IGET OP CODE
3071 3072	ØØ3Ø37 ØØ3Ø4Ø	26214Ø 30610Ø	000001 254200			DP,TAC TAC1,(HALT)			IRESTORE ERROR CODE
3073 3074	003041 003042	254000 540607	003050' 000000			SGRLE1 100,JOBPD3(J	DAT)		IYES, RELEASE DEVICE,FIND TTY, AND RETURN TO CALLE IND, AC NUMBER OF RUN OR GETSEG UUD
3075 3076 3077	003043 003044	260140 332000	000000 002542'			PDP,STOTAC USRJDA+0		3	STORE ERROR NUMBER IN USER AC DO NOT RELEASE CHANNEL Ø IF NOT INITED YET UUD HANDLER DOES NOT ALLOW THIS FROM EXEC MODE
3Ø78 3Ø79	003045 003046	071000 261147	000000 003030'		RELEA PUSH	S Ø, PDP,JOBPD1(JDATS	;	RELEASE DEVICE(IF INITED)
3080 3081 3082	@Ø3Ø47		002431'			USRXIT			AND RETURN TO USER TO HANDLE ERROR
3083 3084 3085	003050 003051	260140 265040	ØØ2542' ØØ2017'			PDP,SGREL AC,CONMES		;	RELEASE DEVICE AND FIND TTY PRINT ?CRLF AND RETURN TO CALLER WHO WILL PRINT REST OF ERROR MESSAGE AND STOP JOI
3086 3087 3088	003052	374321	200000	1	ASCIZ	/?			AND ALLE FAINT REST OF EXROR HESSIGE AND STOP SU
3089 3090	003057			COMENIC	5 10			or -	204004
3090 3091 3092 3093	003053 003053 003054 003055	545747 504554 637163	576564 600000 644164	COMENDI	ENU		IENU	UF (COMCON
3093 3094 3095	003055 003056 003057	435755 545747	605154 515600						
3096 3097	003060 003061	637163 446353	0000000 0000000						
3098	203062		001341'						

COMCON - COMMAND DECODER AND SAVEGET ROUTINES - V433 MACRO,V36 19:02 4-JUN-69 PAGE 105-1 SAVGET - SAVE,GET,R,RUN COMMANDS AND RUN,GETSEG UUOS

3099	003063	440600	000002
3100	003064	Ø6424Ø	000000
31Ø1	003065	201004	020000
3102	003066	000007	002717'
3103	003067	000007	0027431

NO ERRORS DETECTED

PROGRAM BREAK IS 003070

COMCON	-	COMMAN	۷D	DECODER	AND	SAVEGET	ROUTINES	-	v433
	5	SYMBOL	T,	ABLE					

AC1	000015	INT	AC2	000016	INT	AC3	020017	TNT
ACTCH1	001672'		ACTCHK	001667		ADRERR	002563	
ALOGIN	000562'		ALOGNI	000565		ANYACT	001670	
ANYRIN	0020741		ARCOM	000621'		ARCOM1	000622'	
ASGHGH	002054		ASSASG	001264	EVT	ASSCON	400000	INT
ASSER1	000707'		ASSF1	000735	EAT	ASSFIN	0007231	1.14
ASSGØ	0006531		ASSG1	000665		ASSG2	0006751	
ASSG3	000651		ASSG4	000656		ASSG5	000662'	
ASSG6	0006421		ASSG7	000701		ASSIGN	000633'	
ASSMS2	000716		ASSPRG	200000	INT	ATT1	001206'	
					1 19 1	ATT4	001231'	
ATT2	001214		ATT3	001224'				÷ 117
ATT5	001235'		ATT6	001242	* · · · T	ATTACH	001136'	
BREAKB	001766'	EXI	BUFPNT	000012	INT	BUFWRD	000013	t N T
C	000012		CBLANK	001570		CCLRUN	000570	
CERR	000433'		CFINI	001574		CFINS	001577'	
CHKACT	000101		CHKCO1	000115		CHKCO2	000113'	
CHKDLY	000111		CHKMED	002425	EXT	CHKNO	000041	
CHKRUN	000070'		CHKSTR	000447		CHKXPN	000125	
CKIOWD	ØØ2753'		CKSARG	0027561		CLOG2	000607	
CLOGIN	200620'		CLRWRD	001371'	EYT	CLSOUT	000001	TNT
CMPLP1	002343'		CMPLP2	0023521		CMPTHR	002362	1.14.1
CMWB	200000	INT	CMWRQ	002000		COMØ	000001'	
COMENT	2000155'		COMCON	0000000	TNIT	COMDIS	000143'	
COMEND	003053'		COMER	000134'	100	COMER1	002010'	
COMERA	2020201	T NI T	COMERL	002003		COMERP	001777	T NIT
COMERR	002001'		COMEND	000027		COMGO	000137	1.14.1
COMERK	000013'	1 (1)	COMMAN	000000	5 N 7	COMNEQ	000024'	
COMPET	000013			000161	1.00.1		000232	
CONØ	002021		COMRT1 CONFIG	000175	E V T	COMTAB	002017	t N T
-					t. A F	CONMES		1 N I
CONMS1	002020		CONDUT	002023		CONT	000463	
CONTC	000463		CONTC1	001675		CORØ	000371'	
COR1	000504		COR2	0005071		COR3	200512	
CORE	000473'		COREØ	702226		CORE1	222404	
CORMAX	000516'		CPOPJ	002220		CPOPJ1	002240	ςχ'
CPOPJ2	002105	EXI	CRLF	002016	INI	CTEX	001735	
CTEX0	001727		CTEX1	201730		CTEXA	001747	
CTEXT	001721		CTEXT1	001723		CTXCNC	001753	
DAMESS	003062'	EXI	DAT	000025	INT	DAYTIM	001312	
DAYTM1	001330		DCOM	201524		DCOM1	001531	
DCOMA	001545		DDTGO	000446		DEA1	ØØ2062 '	
DEAER1	000770		DEAER2	000776		DEASAL	002060	
DEASG	002043'	INT	DEASSI	4037571	_	DEASTY	002066.	
DEAT	ØØ1535		DECIN	002071'		DECIN1	902071	TNT
DECLF	000496	INT	DECP1	002770		DETACH	001247'	
DEVATT	ØØ1164'	_	DEVDAT	<i>0000</i> 06	INT	DEVIOS	000002	1 N T
DEVLG	000727		nevlog	700005	INT	DEVLST	002061'	
DEVMOD	000004	INT	DEVNAM	000000	INT	DEVOPR	001561'	
DEVPHY	000645	EXŤ	PEVSER	908093	INT	DEVSRC	202450	ΓXΤ
DISP	000311'		DISPL	000057		DLYCM	001676'	
DLYCM1	201677'		DLYCOM	201676'		ONAERR	000011	TNT
DR	060616	INT	n SER	000011	tNT	nskodb	001705	ΓXΤ
nskfgs	001706'		DVDIRI	400000	INT	OVOSK	200000	TNT
DVMTA	000020	INT	NVTYY	000010	INT	ECOM	ØØ1453'	

COMCON	- COMMAND DECODE Symbol Table	R AND SAVEGET	ROUTINES - V433	MACRO,V36 19:02	4-JUN-69 PAGE 106-1	
ECOMA ERRMES	ØØ1550' ØØ2015'	INT	ERNAM ESTOP	ØØ2477' EXT ØØ1623' EXT	ERRFLG Expand	000001 002602'
EXPCOR	0026621		EXPLP1	002635 1	EXPLP2	002672'
EXPLP3	002700'		EXPND1	0026331	EXPZ	002631'
FDV1	001607'		FNFERR	000000 INT	FREDEV	001624'
FT2REL	777777 777777	INT	FTATTA 777777	777777 INT	FTCCL 777777	777777 INT
FTDISK	777777 777777	INT	FTEXAM 777777	777777 INT	FTFINI 777777	777777 INT
FTKCT	777777 777777		FTLOGI 777777	777777 INT	FTRC10 777777	777777
FTREAS	777777 777777	INT	FTSWAP 777777	777777 INT	FTTALK 777777	777777 INT
FTTIME	777777 777777	INT	FTTTYS 777777	77777	GET	000536'
GETARG GETERR	002270	INT INT	GETCHR	002144' EXT	GETCOR	002776' INT
GETJOB	ØØ3ØØ3' ØØ24Ø6'	INT	GETHGH GETMIN	002512' EXT 002221'	GETJB	002512' 002311' FXT
GETWOU	0030351		GETWRD	002234' INT	GETWO1 HELP	000554
HELP1	000550	2.4.1	HELPPP	000550' EXT	HGHDEP	001545' FXT
HGHWRD	002236'	FXT	HIGHJB	000067' EXT	IADRCK	002455' FXT
ILUERR	000013	INT	IMGIN	002213' EXT	INCOR	004000
INCORE	024000	• • • •	INLMES	002025' INT	INPB	010000 INT
IOBKTL	040000	INT	IODEND	020000 INT	IODERR	200000 INT
IODTER	100000	INT	IOIMPM	400000 INT	105	000000 INT
IOTEND	002000	INT	IOWBLT	002733'	IOWQ	000000 FXT
IPOPJ	002057'		ITEM	000004 INT	JACCT	100000 INT
JBTADR	002215'		JBTDAT	000000 EXT	JBTKCT	001426' FXT
JBTPRG	002421'		JBTSTS	001674' EXT	JDAT	000007 INT
JERR	020000	INT	JIFMIN	002174' EXT	JIFSC2	002171' FXT
JIFSEC	002170		JLOG	000004 INT	JNA	040000 INT
JOB	0026571		JOB1	000375	J0841	002532' FXT
JOBCOR	002541		JOBDA	002225' EXT	JOBDAC	000000 FXT
JOBDOT	002741'		JOBEXM	001536' EXT	JOBFDV	001620' FXT
JOBFF	002452' 000434'	EXT	JOBHCU	002751' EXT	JOBKA	000430
JOBKB JOBN	ØØ1354'	EVT	JOBKT Jobkt	000425' INT 001541' Ext	JOBMAX JOBPD1	000050' FXT 003046' FXT
JOBPD3	0030421		JOBPEI	001526' FXT	JOBREN	000444' FXT
JOBS41	002531'		JOBSA	002426' EXT	JUBSAV	002636' FXT
JOBSD1	002731'		JOBSDD	003066' EXT	JOBSDP	002744' FXT
JOBSV	003067'		JORSV3	002615' EXT	JOBSVD	002745' FXT
JOBSVM	0027531		KILHGH	002224' FXT	KJOB	000410'
KJOB2	000422		KSTOP	000432' EXT	LINSAV	001703' FXT
LOGDET	000572'		LOGER1	001305'	LOGERR	000751'
LOGREF	000542'		LOGSIZ	000603' EXT	LOPØ1	001645'
LOP01A	001661'		LOP01B	001653'	LOP02	001662'
LOPØ5	001630'		LOPØ6	001635'	LOWFIN	0025331
LSTWRD	001377'	EXT	MONJOB	000424' EXT	MONSTR	ØØ2436' FXT
MONTAB	001337'	EXT	MSTART	002267' EXT	NECERR	000010 INT
NEWJOB	000060'		NOACT	040000	NOCOM	001573'
NOCORE	400000		NOCORQ	000377' EXT	NOCRLF	000200
NODATE	001070		NOFILE	003012' INT	NOINCK	000400
NOJOBN NOPER	200000		NOLOGI	100070 702764'	NOMESS	900010 910000
NOTDEV	000100 000770'	INT	NOROOM Notenf	202034' INT	NORUN Notran	010000 020000
NROOM1	002763	INT	NSDERR	000012 INT	NSFERR	000007 INT
NSRBIT	400000	INT	NUMBIT	001633' EXT	NUMLOP	000045
NXIOWO	002727'	• • •	OCTØ	002075	OCTIN	002073' INT

COMCON - COMMAND DECODER AND SAVEGET ROUTINES - V433 MACRO,V36 19:02 4-JUN-69 PAGE 106-2 SYMBOL TABLE

OCTIN1	ØØ2Ø73' INT	OCTPNT	001566' FXT	CUTCHS	002031' FXT
PCORSZ	000000 EXT	PCRLF	000270'	PCRLF1	200213
PDP	000003 INT	PHOLD	903021' FXT	PUBSTS	000000 FXT
PJOB	000405' INT	PJOBN	202043' FXT	PJPGNO	002117'
PLSXPN	000004 DLD	PP2	002116'	PP1	002126'
PRØ	002156'	PR1	002162'	PRJPRG	001316' FXT
PRNAME	003020' EXT	PROG	200007 INT	PRPER	002041' INT
PRQM	002030' INT	PRSPC	002032'	PRT2	0022041
PRT2LF	002202'	PRTERR			
PRTIM1	002174'	PRTIME		PRTHGH	000513' FXT
PRTTIM	001420'		· • • • • • •	PRTSEG	002210' INT
R	200013	PUNIT	201275' EXT	PUUOAC	002273' FXT
REASE1		RADX10	002212' EXT	RCOM	000617
	001111'	REASE2	001115'	REASE3	001121'
REASE4	001113'	REASE5	001116'	REASE6	001123'
REASE7	001125	PEASS	001015'	REASS1	001026'
REASS2	001071'	REASS3	001102'	REASS4	001066'
REASSI	001006' INT	REENTE	000444 '	REFLAG	000607' FXT
RELEA5	001075' EXT	RELEA6	002056' EXT	REQUE	000220' FXT
RESET	002437' EXT	RTIME	001416' EXT	RUN	400000 INT
RUN1	001413'	RUN2	001360'	RUNC1	0006271
RUNCHK	001665'	RUNCM	000630 '	RUNCO2	0006271
RUNCOM	0006251	RUNJOB	002413' INT	RUNTIM	001350'
SATENT	ØØ1627' EXT	SATXWD	001625' EXT	SAVDMP	002470' FXT
SAVE	000531'	SAVERR	002400' INT	SAVEIN	002374
SAVHGH	002320' EXT	SAVJR1	0023221	SAVJOB	002314' INT
SEGSIZ	002213' INT	SENTSZ	001635' FXT	SETBFI	002010' FXT
SETEX1	002304' EXT	SETEXT	002254' EXT	SETRUN	0002010' FXT
SG1	002436'	SG2	002437' INT	SG2A	002440'
SG3	002452' INT	SG4			
SGADAT	000002 INT			SGACOR	000014 INT
SGAEND		SGADEV	000011 INT	SGADMP	000013 INT
SGAHGH		SGAEXT	00001 INT	SGAHED	000012 INT
	000016 INT	SGALEN	000003 INT	SGALOW	000017 INT
SGAMOD	000010 INT	SGANAM	000000 INT	SGANEW	000015 INT
SGAPPN	000007 INT	SGAREN	000004 INT	SGDO	002557'
SGD01	002741'	SGD02	ØØ2747'	SGDUA	002560 .
SGDOER	002750	SGERR1	0025041	SGERRA	Ø02473' INT
SGIOCK	002570' INT	SGREL	002542' INT	SGREL1	002554'
SGRELE	ØØ3Ø3Ø'	SGRELL	0030251	SGRLE1	003050'
SGSET	002241'	SGSET1	0022651	SHFWRD	001363' FXT
SKED1	001565'	SKEDUL	001555'	SKIPS	ØØ1756' INT
SKIPS1	001757' INT	SKIPS2	001770 1	SKIPS3	001773'
SKIPSA	001762'	SKPBR1	200227 ·	SKPBR2	0002231
SKPBRK	000222'	SNOARG	000443	SPCHEK	001764' FXT
SSAVE	000532'	START	000436'	STARTC	000436
STATES	ØØ1565' EXT	STOP	202454	STOP1	000461 FXT
STOPB	000462'	STOPC	001714	STOPCK	001705
STOPO	001707'	STOTAC	003043' EXT	STREQ	000703' FXT
STUSER	ØØ1665' EXT	SWP	002070 INT	SYSDEV	000100 INT
SYSPP	001252' EXT	SYSTAP	201577' EXT	SYSTAT	000557'
T	000012	T1	200013	T2	000337
т́ 3	000015	T 4			
TAC1			000016 0017(0) EXT	TAC	000001 INT
		TAKR	001760' EXT	TALK	001432
TALK1	ØØ1445'	TALK2	001442'	TEM	000010 INT

COMCON	- COMMAND DECODER A Symbol Table	ND SAVEGET ROUTINES - V433	MACRO.V36 19:02	4-JUN-69 PAGE 106-3	
TEMP1 TIME	ØØ1302' ØØ1346' EX		001304' 002011' EXT	THSDAT TITAKR	001330' FXT 002004' FXT
TOOLOW TRNERR TTYATI	002713' 000006 IN 000166' EX		003002' EXT 001162' EXT 001157' EXT	TRESCN TTIME TTYCM	002002' FXT 001420' FXT 001704' FXT
TTYCOM	0000000' EX 000376' EX	T TTYDET	001250' EXT 002556' EXT	TTYFND TTYKIL	001163' FXT 000431' EXT
TTYRNC TTYTAB TYQINS	000020 001277' EX 002023'	TTYRNU T TTYTLK UCHN	000040 001437' EXT 000012 INT	TTYSTR TTYUSR Ugethi	000214' EXT 000210' FXT 002432' FXT
UGTERR	002433' IN 002433' IN 002415' IN	T UGTSEG	002432' INT 002422'	UPTIME USRDDT	001411' FXT 002565' FXT
USRHCU USRREL	002566' EX 002540' EX	T USRXIT	003044' EXT 003047' EXT	USRMOD USTART VCOMCN	010000 INT 000447' FXT 000433 INT
UUO VIRTAL Zerswp	000014 IN 000602'EX 000400'EX	T WDPJIF	002435' EXT 001372' EXT	WLBIT	001631' FXT

A	6#	6												
AC1	6#	6	65	1698	1699	1721	1703	1704	2524	2505	2511	2512	2875	2876
	2877	2878	2879	2880	2881	2884	2899	2900	2901	2992	2994	2906	2907	2912
	2913	2915	2928	2929	2931	2933	2940	2941	2942					
4 C 2	6#	6	66	1229	1230	1233	1688	1701	1704	2137	2147	2154	2392	2928
	2909	2917	2920	2921	2927	2928	2932	2933	2934	2935	2936	2937	2939	
AC3	6#	2843	2844	2845	2846	2858	2882	2946	2947	2954	2955			
ACTCH1 ACTCHK	1717 1717#	1720#												
ADRERR	55	2810												
AEFERR	6#	2010												
AL	6#	6												
ALOGIN	822	841#	889											
ALOGN1	574	849#	001											
ANYACT	55	1718												
ANYRIN	2082	2086#												
ARCOM	579	83Ø	836	860	893	900#								
ARCOM1	898	901#												
ASGHGH	1033	1034	2035	2036										
ASSASG	55	957	967	1330										
ASSCON	6#	6	119	946	948	1164	1329	1690	2ø32	2040				
ASSER1	958	990#	1351											
ASSF1	1022	1027#												
ASSFIN	956	959	969	1010#										
ASSG2	95Ø#	972												
ASSG1	952	962#												
ASSG2	963	968	971#											
ASSG3	945	948#												
ASSG4	947	953#												
ASSG5	954	957#												
ASSG6 ASSG7	93Ø 933	934# 982#												
ASSIGN	47Ø	926#												
ASSMS2	1002	1008#												
ASSPRG	6#	6	1136	1690										
ATT1	1218	1272#	1408	1070										
ATT2	1240	1276#												
ATT3	1235	1283#												
ATT4	609	1173	1221	1287#										
ATT5	1256	1292#												
ATT6	1262	1296#												
ATTACH	478	1203	1296#											
B	6#	6												
BREAKB BUFPNT	272	1857	1867			0.7.5								
BUFWRD	6# 6#	6	62 63	1781	2077	2365								
C	2ø77#	6 2365#	00	1782	2078									
CBLANK	459	1614#												
CCLRUN	488	489	490	491	492	493	494	495	496	497	498	499	520	e
	532	859#		• / =	7/6	4,0	- / -	77./	470	47/	470	477	0 v. U	521
CERR	194	606#												
CFINI	473	1634#												
CFINS	677	1637#												

CHKACT	136	141#											
CHKCO1	167#												
CHKC02	152	154	165#										
CHKDLY	161#	183											
CHKMED	630	631	1550	1551	2601	2603							
CHKNO	97	102#											
CHKRUN	102	134#											
CHKSTR	635	647	659#										
CHKXPN	169	173#											
CKIOWD	2460	2746	2971#										
CKSARG	2765	2985#											
CLKR	6#	6											
CLOG2	881	885#											
CLOGIN	484	873#											
CLRWRD	1401	1419											
CLSIN	6#	6											
CLSOUT	6#	6	2784										
CMPLP1	2499#	2513	2701										
CMPLP2	2506#	2511											
CMPTHR	2501	2514#											
CMWB	6#	6	107	197									
CMWRQ	196	220	262	3.07#	457	462	467	468	485				
COMØ	69#	1723					107						
COMENT	51	217											
COMCON	16	17#											
COMDIS	163	202#											
COMEND	3090#	LUL.											
COMER	98	111	137	170	192#								
COMER1	1905	1909#	10,	1/0	T / F /								
COMERA	628	715	1111	1366	1405	1507	1535	1539	1548	1599	1882	1885#	2396
COMERL	1903#	1907		1000						1377	2002	2002.	2070
COMERP	1882	1884#	2145	2146	2149	2152	2153						
COMERR	1602	1628	1894	1897#									
COMEND	82	91#											
COMGO	104	168	174	177	196#								
COMLP	79#	88	.		•								
COMMAN	49	67#											
COMNEQ	84	88#											
COMRET	206#												
COMRT1	218	223#											
COMTAB	79	81	401#	449									
CONØ	1953#	1964											
CONFIG	52	235											
CONMES	236	1042	1388	1947	1951#	1973	1992	2011	3084				
CONMS1	1952#												
CONOUT	1956#	2212											
CONT	466	698#											
CONTC	476	693#											
CONTCI	1723#	1744											
CORØ	527#	730											
COR1	720	730#											
COR2	726	736#	883										
COR3	714	742#											

CORCNT	6#	6												
CORE	462	713#												,
COREØ CORE1	55	725	2267											, I I I I I I I I I I I I I I I I I I I
CORMAX	56 756	551 757												,
CPOPJ	261	527	564	1053	1710	1763	0077	2070	2010					,
CPOPJ1	1755	1768	2022	2075	2101	1/63 2103	2233 2290	2239	2242	2244	2725			,
CPOPJ2	2075	2093	2026	2099	C T K) T	2100	2240	2302	2639					ŗ
CRLF	238	247	559	1455	1608	1708	1933	1936#	2208					,
CTEX	1803	1809#			··· ·	÷•••	* / ~ ~		4600					
CTEXØ	1800#	1807												,
CTEX1	1799	1823#												
CTEXA	1810	1815	1819#											
CTEXT CTEXT1	71 788	1778 798	1785#	2381	• • • •	4.7.10								
LIEAIL	2373	/90	911	926	982	1018	1054	1106	1252	1317	1470	1634	1779	1788#
CTXCNC	1828#	1873												
D	- 6#	10/0												
DAMESS	55	1386	1387											
DAT	6#	6	1798	1861	2499	2512								
DAYTIM	479	1361#				~								
DAYTM1	1363	1365	1369	1378#										
DCL	6#	6												
DCLI	6#	6												
DCLO	6#	6												
DCLR	6#	6												
DCOM	467	1533#												
DCOM1	1557	1563#												ļ
DCOMA DUI	1562	1579#												
	6# 6#	6 6												ļ
DDTGO	472	654#												ļ
DEA1	2056#	2060												
DEAER1	1058	1064#	1345											
DEAER2	1060	1070#	1182											
DEASAL	2050	2054#	_											
DEASG	1059	1657	2021	2024#	2057									
DEASSI DEASTY	471 598	1053# 1055	2050	24544										
DEAT	1508	1563	2050 1569#	2053#										
DECIN	713	1208	1364	1425	2074	2091#								
DECIN1	1109	2074	2080#	2394	2017	CU714								
DECLF	555	558#	1005	207.										
DECP1	56	1381	3201											
DEN	6#	6												
DETACH	477	1317#												
DEVADR DEVATT	6# 1 7 1 1	6 125Ø#												
DEVBUF	1211 6#	125Ø# 6												
DEVCHR	6#	0 6												
DEVCTR	6#	6												
DEVDAT	6#	6	70	120	121	207	210	212	737	938	949	950	054	0.74
	972	974	1000	1010	1016	1024	1027	1028	1030	1039	1040	950 1064	951 1070	971 1071
									2000	1007	10-0	1004	1070	10/1

	1133 1258 1600 2029	1139 1264 1641 2031	1140 1267 1642 2054	1142 1268 1647 2055	1149 1276 1651 2056	1152 1277 1656 2059	1153 1296 1721 2060	1155 1323 1757 2061	1158 1326 1762 2258	1162 1332 1764 2272	1165 1336 1766 2686	1187 1342 1901 2703	1188 1344 1904 2704	1241 1464 1910 2749
	2777	2780	2782	2823	3059						2000	2,00		27.17
DEVEXT	6#	6												
DEVFIL	6#	6												
DEVIAD	6#	6												
DEVIOS	6#	6	1762	2823										
DEVLG	55	1020		1010		0.0.04								
DEVLOG DEVLST	6# 924	6 949	121 1664	1010 1687	1028	2031 2055								
DEVMOD	924 6#	545	120	1030	2051 1133	1165	1264	1326	1336	1689	2029	2686	2749	2707
102 41100	3059	U	120	1000	1100	1100	1204	1520	1330	1003	2029	2000	2/49	278Ø
DEVNAM	6#	6	95Ø	951	1039	1270	1187	1276	1600	1698	1766			
DEVOAD	6#	6			1007	10/0		12/0	1000	1070	1,00			
DEVOPR	1595	1601												
DEVPHY	55	944												
DEVPPN	6#	6												
DEVPTR	6#	ć												
DEVSER	6#	6	971	1152	1706	1764	2059							
DEVSRC	55	1057	1128	1259	1324	1473	1639	2662						
DGF	6#	6												
DHNG	6#	6												
DIN DINI	6# 6#	6 6												
DISP	91	455#												
DISPL	78	449#												
DLK	6#	6												
DLYCM	158	733	920	1719	1733#									
DLYCM1	161	586	681	985	1716	1741#								
DLYCOM	56	1733												
OMT	6#	6												
DNAERR	6#	6	2705											
00U DR	6#	6	0 (17											
DRL	6# 6#	6	2647											
DRN	6#	6 6												
DSER	6#	6	1152											
OSI	6#	6	1175											
DSKDDB	1755	1757												
DSKFGS	1755	1758												
OSKRLB	6#	6												
nso	6#	6												
OVAVAL	6#	6												
DVCDR	6#	6												
DVDI9 DVDI9I	6# 6#	6 6	1000	2428										
DVCIS	6# 6#	6 6	1029	2028										
DVDSK	6#	6	1327	1691	2687	3260								
DVDTA	6#	6	1021	1071	2007	0600								
DVIN	6#	6												
DVLNG	6#	6												

DVLPT DVMTA	6# 6#	6 6	2752	2781										
DVOUT	6#	6	.,	270-										
DVPTP	6#	6												
DVPTR	6#	6												
DVTTY	6#	6	1134	1266	1337	1691								
ECOM	468	1502#	1101	1200										
ECOMA	1512	1583	1586#											
ENTRB		6	1200#											
ERNAM	56	2708												
ERRFLG	220	244	321#											
ERRMES	606	662	701	870	1003	1025	1065	1073	1190	1272	1279	1283	1287	1292
Criticia -	1297	1353	1487	1586	1923	1926#	2001							
ESTOP	56	531	589	1169	1659	17204								
EXPAND	180	2809	2843#	110,	10.79									
EXPCOR	2893	2898#	2040#											
EXPLP1	2875#	2886												
EXPLP2	2906#	2919												
EXPLP3	2912#	2917												
EXPND1	2852	2854	2863	2869	2873#	2948								
EXPZ	2865	2870#	2000	2007	2070#	2940								
FBMERR	2005	2070#												
romenn	0#	0												
FDV1	1647#	1654												
FNFERR	6#	6	3033											
FREDEV	481	1666#												
FRGSEG	6#	6												
FT2REL	6#	411	465	541	611	622	625	629	637	743	784	1ø32	1549	158Ø
	2034	2262	2294	2298	2367	2383	2431	2464	2600	2621	2657	266Ø	272B	
FTATTA	6#	280	423	477	1194	1195	1301	1302						
FICCL	10#	281	434	488	855	857								
FICHEC	6#													
FTDISK	10#	672	678	166/	1693	1748	2367	2685	3058					
FTEXAM	6#	280	413	467	1491	1493								
FTFINI	6#	281	419	475	1629									
FTGETT	6#													
FTHALT	6#													
FTKCT	6#	127	1447	1457										
FTLOGI	10#	50	94	237	240	280	428	43Ø	431	482	484	485	568	5 = 2
	594	823	81,6	818	826	832	842	843	865	866	928	981	1210	1213
	1222 2390	1223	1248	1249	1309	1311	1315	1362	1436	1439	1590	2109	2110	2367
FIMONP	239Ø													
FTPRV	6#													
FTRA10	0 <i>"</i> 6#													
FTRC10	0# 1Ø#													
FTRCHK	1.0# 6#													
FTREAS	0# 6#	280	431	485	1077	1078	1092							
FISLEE	0# 6#	676	491		10//	10/0	+ W 7 C							
FISHAP	0# 1ピ#	50	147	182	187	258	535	573	582	716	719	728	751	755
r i .5 Mi 4 M	762	767	848	875	916	290 919	2236	ل ، ر	202	10	/ 1 7	120	//1	, , , ,
FTTALK	/ to Z 6#	280	429	483	1465	1467	2 2 3 0							
FITALK	0# 6#	2010 50	123	280	426	480	545	593	1394	1395	1661			
FTTRAC	0# 6#	0.0	120	200	440	400	572	545	1044	1070	TOOT			
FILMAU	0#													

FTTRPS	6#													
FTTTYS	6#	208	267	684	689	736	900	937	940	973	976	991	998	1011
	1015	1206	1242	1250	1347	1350	1615	1619	1791	1796	1819	1823	1841	1857
	1885	1886	1898	1914	1957	1961	1983	1987	2089	2106	2107	2121	2128	2139
	2143	2148	2157	2158	2254	2257	2271	2275	2379				-120	-10/
GET	463	797#												
GETARG	2416	2419#	2591											
GETCHR	267	274	1797	1800	1825	1857	1859	1863	1886	1903	2107	2158		
GETCOR	2748	2767	2897	3012	3014#		2000	1000	1000	1700	2101	2170		
GETERR	3021	3023#												
GETHGH	2729	2730												
GETJR	2551	2597	2727#											
GETJOB	797	2548	2550#											
GETMIN	585	731	914	2253#										
GETW01	56	2426	2428	2437	2439	2441								
GETWOU	56	2424	3069	2.007	2407	2774								
GETWRD	1511	2289	2292#											
HELP	486	826#	<i>LL76</i> #											
HELP1	819#	827	833											
HELPPP	818	820	000											
HGHDEP	1581	1582												
HGHWRD	2295	2296												
HIGHJB			477											
HSAMSK	52	132	133											
	6# 6#	6												
HSAPOS		6												
HSASIZ	6#	6												
HUNGCT	6#	6												
HUNGST	6#	6												
I	6#	6												
IADRCK	264Ø	2677												
IB	6#	6												
IBUFB	6#	6												
ICLOSB	6#	6												
ILM	6#													
ILUERR	6#	6	2625											
IMGIN	2237	2238												
INBER	6#	6												
INCOR	148	153	160	295#										
INCORE	295#	456	462	464	465	466	467	468	472	473	474	475	476	485
	488	489	490	491	492	493	404	495	496	497	498	499	500	521
	502													
INITP	6#	6												
INLMES	230	739	748	769	1412	1417	1422	1426	1430	1450	1516	1520	1524	1683
	1696	1970	1972#	2185	2189	2204				2.02	1010	22.00	2.52	1000
INPB	6#	6	2782		• •									
10	6#	6												
IUACT	6#	6												
IOSEG	6#	6												
IORKTL	6#	6	2824											
IUROT	6#	ő												
IDCON	6#	6												
IDDEND	6#	6	2785											
IDDERR	6#	6	2824											
· · · ·	0#	0	2027											

IODTER IOEND	6 # 6 #	Ų	2824											
IOFST IOIMPM	6# 6#	6	0.0.5											
I ONRCK I OPAR	6# 6#	6	2824											
IOS	6#	6	175	177	196	100								
IOTEND	154Ø 6#	1565	2261	2269	2400	198 2779	202 2788	785 2823	787 2824	79 7	913	1224	1	
IOUSE	6#	6 6	2785				2,0	2023	<824					
IOW	6#	6												
IOWBLT Iowc	2938 6#	2943#												
IOWQ	673	6												
IPOPJ	2022	2042												
IPPERR ITEM	6# 6#	6												
	199	6 218	93 223	102	105	106	109	110	124	125				
	789	799	223 8Ø7	227 8Ø9	232 844	250	260	261	557	567	129 572	132 675	133	146
	1121	1123	1124	1131	1150	846 1163	882	891	901	912	931	1053	676 1099	699
	$1363 \\ 1919$	1367 1926	1441	1444	1446	1452	1166 148Ø	1167 1481	1168 1485	1230	1238	1254	1263	112Ø 1319
		1720	2025	2027	2241	2372	2376	2494	2495	1486 2496	1655 2498	1715	1722	1760
JACCT	2808	2894								2.770	2 7 90	2500	2508	2596
JBFADR	6# 6#	6 6	569	571	890									
JBFCTR	6#	6												
JBFPTR JBTADR	6#	6												
JBTDAT	51 51	146	2241											
JBTKCT	128	129	1449	1452										
JBTPRG	789	799	901	912	2368	2372	078/							
JBTSTS	51 1118	93	106	199	223	227	2376 564	2417 572	2596 696					
JBUF	6#	1123 6	1220	1401	1441	1722		372	090	699	809	839	846	891
JDAT	6#	6	143	175	638	646								
	15Ø3 2482	1504	1506	1514	1541	1543	654 1545	114Ø 1547	1147 1570	1149	1153	1156	1162	1562
	2855	2483 2921	2484 2952	2491 2958	2516	2608	2654	2672	2754	1574 2759	1641	1651	1656	2481
JERR	6#	6	698	2900	3063	3074	3079			2739	276Ø	2761	2769	2811
JIFMIN JIFSC2	1359 2171	1374	2171	2179	2201									
JIFSEC	1453	2198 2171	2192	2197										
JLOG	6#	6	95	569	808	821								
JNA JOB	6# 673	6	107	225	1125	1219	845	873	1440					
JOR1	533#	1092 591	1099	1150	1163	1633	1655	2725	2878	2894				
JOB41 JOBCOR	2454	2481	2725	2760						2074				
JOBDA	2368	2417	2462	2654	2725	2761	2769	2800						
JOBDAC	673	2251	2266				=,0,	~ O () (U						
JORDOT	652	654	2454	2483	2800	2011	0.0.7.	_						
JOBEXM JOBEDV	1502 1118	1503	1504	1506	1514	2811 1531	2851 1541	2921 1543	2949					
2011/04	1110	1140	1147	1149	1153	1156	1162	1633	1545 1641	1547 1651	1570			
								-		TONT	1656			

JOBFF	2639	2672											
JOBHCU	51	175	2958										
JOBKA	592#	1.5	2750										
JOBKB	567	608#											
JOBKL	565	589#											
JOBMAX	51	109											
JOBN	1121	1204	1217	1401	1407								
JOBPC	1500	1574	1611	1404	1407								
		3055	3063	3079									
JOBPD1	2754		3003	30/7									
JOBPD3	3055	3074											
JOBPFI	1531	1559											
JOBREN	644	646		0750									
JOBS41	2454	2482	2725	2759									
JOBSA	612	638	2491	2584	2608	2800							
JOBSAV	2639	2800	2853	2866	2876								
JOBSD1	2800	286Ø	2941										
JOBSOD	2454	2484	2493	2800	2913	2920	2929	2931					
JOBSDP	2801	2953				_							
JOBSV	2454	2492	2516	28ø1	2848	2861	2867	2871	2873	2918	2944	2945	2952
JOBSV3	2801	2855											
JOBSVD	2801	2951	2954										
JOBSVM	2496	2640	2681	2682	2751	2845	2969	2971					
JR0	6#	6											
JWPOS	6#	6											
JWSIZ	6#	6											
JXPN	6#	6											
KILHGH	542	543	2263	2264									
KJOB	458	567#											
KJ0B2	570	581#											
KSTOP	56	600											
LINSAV	1731	1745											
LISTSN	6	27.2											
LOGCET	870#	874											
LOGER1	1321	1353#											
LOGERR	1023	1047#											
LUGREF	807#	886											
LOGSIZ	876	878											
LOOKR	6#	6											
LOPE1	1689#	1797											
LOPEIA	1702	1705#											
LOPEIR	1698#	1700#											
LOP02	1692	1796#											
LOP05	1674#	1681											
LOP06	1676	1680#											
LOWFIN	2735	2761#											
LSTWRD	1401	1424											
MEDDLE	6#	6											
MONJOB	56	529	587			04.0							
MONSTR	57	532	590	1146	1645	2642							
MONTAB	1359	1385		<u> </u>									
MSTAPT	57	1145	1643	2403									
NECERR	6#	6	2996										
NEWJOB	108	119#											

NLEERR	6#	6												
NOACT	165	288#	456	458	460	461	462	463		445				
	486	487	488	489	490	491	492	403	464	465	473	475	484	
	500	501	502		-	471	476	490	494	495	496	497	498	
NOCOM	504	1628#												
NOCORE	167	285#	457	458	459	460	461	462	447					
	479	48Ø	481	482	483	484	491	40∠ 486	463	469	470	471	477	
	493	494	495	496	497	498	499		487	488	489	49Ø	491	
NOCORQ	536	537		490	497	490	499	500	501	522	534			
NOCRLE	246	310#	458	459	460	461	417							
	487	488	489	490	491	401	463	464	465	468	477	483	484	
	501	502	10.	475	471	492	493	494	495	496	497	498	499	
NODATE	308#	202												
NUFILE	2744	3031	3033#											
NOINCK	192	220	224	309#	457	0		_						
	483	504	1480	1485	457	458	459	471	477	478	479	48Ø	481	
NOJOBN	103	219				. – •								
NOLOGI	96	219 287#	286#	457	458	459	471	477	478	479	481	482	483	
	504	201#	457	458	459	478	479	480	481	482	483	484	486	
NOMESS	256	7124	450	407										
NOPER	250	316# 311#	458 456	483	576									
NOT LA	240 484	311# 486		458	460	461	463	464	465	466	472	474	477	
	404	400	487	488	489	490	491	492	493	494	495	496	497	
	499	5.30	C: # 4											•
NOROOM	499 2996#	500	501	502										
NORUN	135	3017 290#	457	450										
10101	475	290# 476	456	458	460	461	462	463	464	465	466	472	473	
	496	476	484	485	486	487	488	489	490	491	492	493	494	4
NOTDEV	979		498	499	500	501	502			-				-
NOTENE	927	1051	1063#	1177	1640									
NOTRAN	927 148	983	1107	1110	1209	1442	1482	1534	1538	1635	1999	2001#	2370	23
NROOM1		289#	295	458	460	461	462	463	484	486	487		2070	20
NSDERR	2983 6#	2995#	0740											
NSFERR	6#	6	2712											
NSHF		6	3023											
NSRBIT	6#	6												
NSWP	6#	6	785											
	6#	6												
NUMBIT	1668	1677												
NUMLOP	106#	110												
NXIOWD NXM	2930	2939#												
	6#													
OBUES	6#	6												
OCLOSE	6#	6												
0010	2090#	2108												
OCTIN	621	1505	1533	1537	1546	1597	2074	2085#	2144	2151				
OCTIN1	2074	2084#				-		~2024	6 1 7 7	5101				
OCTPNT	57	1515	1519	1523	1595	1627								
OUTBEB	6#	6												
OUTCHS	1899	1906	1912	1958	1959	1984	1985							
OUTPB	6#	6					1909							
PCORSZ	711	2221												
PCRLF	226	244#												
PCRLF1	250	256#												
PDP	6#	6	67	69	70	71	92	166	180	193	198	223		

	211	228	230	233	234	236	238	245	247	249	253	255	257	265
	269	270	274	533	534	537	538	543	550	558	574	577	585	591
	598	599	608	621	631	680	683	689	700	713	725	727	731	7.37
	739	742	745	748	761	769	788	798	810	812	823	827	833	849
	854	889	900	911	914	926	938	944	957	967	974	982	987	1000
	1001	1003	1004	1016	1018	1020	1024	1025	1027	1034	1040	1041	1054	1057
	1059	1061	1064	1071	1072	1090	1106	1109	1112	1120	1124	1128	1139	1141
	1142	1144	1148	1157	1159	1160	1166	1168	117Ø	1172	1175	1178	1188	1189
	1208	1225	1239	1241	1244	1252	1258	1259	1268	1269	1277	1278	1296	1317
	1323	1324	1330	1342	1343	1344	1364	1376	1381	1388	1390	1391	1403	1412
	1416	1417	1421	1422	1425	1426	1429	1430	1445	1448	1450	1454	147Ø	1473
	1476	1478	1481	1484	1486	1505	1508	1511	1513	1515	1516	1518	1519	1520
	1522	1523	1524	1533	1537	1546	1551	1563	1566	1573	1577	1582	1584	1597
	1604	1607	1623	1634	1639	1642	1650	1653	1657	1682	1683	1696	1705	1718
	1720	1721	1723	1733	1741	1742	1743	1744	1785	1788	1800	1803	1818	1825
	1859	1863	1865	1871	1884	1886	1902	1903	1906	1909	1912	1952	1953	1959
	1972	1973	2026	2027	2033	2036	2041	2054	2056	2057	2061	2062	2086	2107
	2129	2140	2143	2144	2150	2151	2155	2158	2159	2180	2184	2185	2188	2189
	2191	2193	2194	2203	2204	2207	2223	2258	2260	2261	2264	2267	2269	227Ø
	2272	2273	2373	2381	2386	2391	2394	2420	2421	2423	2424	2426	2428	2433
	2437	2439	2441	2460	2466	2525	2528	2534	2551	2586	2591	2597	2598	2603
	2612	2626	2646	2662	2677	2696	2704	2706	2708	2713	2730	2746	2748	2757
	2765 296Ø	2767 2989	2779	2788 2997	2807	2809	2814	2825	2828	2887	2897	2898	2956	2957
			2995		2999	3001	3015	3024	3035	3040	3041	3043	3067	3069
PHOLD	3071 57	3Ø75 2529	3079 2537	3Ø83 2552	2709	2715	0.070	7480	700/					
PJBSTS	673	2029	2531	2352	2169	2/15	2830	3002	3026	3044				
PJOB	469	555	557#											
PJOBN	259	260	924	964	999	1118	1170	1167	1044	4047	4744	4775	4750	0.000
1 GODIN	2024	200	724	707	,,,,	1110	1130	1167	1261	1263	1316	1335	1759	2022
PJPGNO	1225	2130#	2391											
PLSXPN	173	299#	464	465	472	474	475							
POV	6#	2,7,4	404	405	4/2	- / -	475							
PPØ	2129#	2136												
PP1	2133	2142#												
PRØ	2183	2187#												
PR1	2181	2191#												
PRJPRG	807	843	844	928	931	1230	1233	1254	1316	1319	1367			
PRNAME	57	1041	1072	1189	1278	1705	3040	3043	1010	1017	1007			
PROG	6#	6	143	146	154	169	527	586	73Ø	915	1095	151Ø	1558	1564
	1717	2292	2371	2375	2382	2389	2392	2399	2425	2427	2430	2438	2440	2442
	2459	2462	2492	2493	2494	2498	2518	2519	2595	2650	2651	2652	2653	2656
	2661	2683	2688	2690	2693	2695	2745	2753	2843	2846	2848	2861	2867	2871
	2873	2891	2903	2907	2913	2918	2920	2944	2949	2972	2986	2987	2988	3014
	3039	3042	3061			-								
PRPER	249	2009	2011#	2194	3041									
PROM	245	1980	1982#											
PRSPC	234	1391	1991#											
PRT2	2188	2203	2207	2210#										
PRT2LF	2200	2207#												
PRTERR	6#	6	2532											
PRTHGH	744	745												
PRTIM1	1393	2201#												

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PRTIME	1410	1416	1421	1425	1 4 3 9	4 4 7 7			_			
PRTSEG	742	2220	2223#	1425	1429	1433	1445	1448	2177	2179#		
PRTTIM	1446#		2220#									
PUNIT	54	215	1265	1316	1339							
PUUOAC	1092	1094	1633	1649	2417	2402						
PVSPYA	6#	6	1033	1049	2417	2422						
PVSPYM	6#	6										
PVTRPS	6#	6										
R	2078#	2081	2085	2102	24.44							
RADX10	57	233	558	761	2104	1703						
RCOM	460	897#	550	/01	773	1390	1454	1682	2184	2193	2213	2225
REASE1	1126	1172#										
REASE2	1122	1129	1177#									
REASE3	1132	1182#	11//#									
REASE4	1174#	1180										
REASES	1178#	1183	44.07									
REASE6	1135	1185#	1186									
REASE7	1185	1185#										
REASS	485	110/#										
REASS1	1100	1120#										
REASS2	1155#	1120#										
REASS3	1135#	1164#										
REASS4	1138	1152#										
REASSI	1091											
REENTE	474	1094# 646#										
REFLAG	805											
RELEAS	57	811	885									
RELEAS	58	1159										
RENMB	50 6#	2041										
REQUE		6										
RESET	259 58	263	250/									
RTIME		533	2586	2646								
RUN	124 6#	1401	1444									
RUN1	1404	6 1435#	134									
RUN2	1404											
RUNABL	1400	1412# 6										
RUNC1	913#	0										
RUNCHK	166	1715#										
RUNCH	800											
RUNC02	903	914# 913#										
RUNCOM	461											
RUNJOB	401 913	911#	25/74									
RUNMSK	913 6#	2561	2563#									
RUNTIM	480	6										
SATENT		1403#										
SATXWD	1668	1673										
SAVDMP	1668	1671										
SAVE	2640	2694										
	464	784#										
SAVERR SAVFIN	2453	2480	2532#									
SAVEIN	2467	2528#										
SAVHGH SAVJB1	2465	2466										
SAVJOB	2472#	0457	0 4 E 7 "									
JAVJUD	787	2453	2457#									

SD	6#	6										
SEGSIZ	2223	2232	2235#									
SENTSZ	1668	1680										
SETBEI	1899	1909										
SETEX1	2432	2433										
SETEXT	2384	2386										
SETRUN	58	255										
SG1	2457	2550	2563	2642#								
SG2	2638	2646#	2200	20.20								
SGZA	2444	2647#										
SG3	2638	2672#										
SG4	2638	2684#										
SGACOR	2342#	2342	3014	3016								
SGADAT	2315#	2315	2389	2438								
SGADEV	2333#	2333	2371	2425	2661							
SGADMP	2340#	2340	2459	2494	2518	2683						
SGAEND	2321#	2321	2323	2651								
SGAEND	2313#	2313	2382	2430	2693	2695	3042	3061				
SGALAT	2335#	2335	2475	2656	2070							
SGAHGH	2346#	2346	24/2	2090								
SGALEN	2348#	2317	2321	2519	2526	2690	2745	2753	2758	2843	2972	
SGALOW	2350#	2350	2021	2313	2720		27.2		-/			
SGAMOD	2331#	2331	2333	2335	2472	265Ø						
SGANAM	2311#	2311	2313	2315	2317	2375	2427	2479	2595	274Ø	3039	
SGANEW	2344#	2344	2399	2442	2986	2987	2988	2			- 2	
SGAPPN	2325#	2325	2392	2440	2688	2,07	2700					
SGAPPN	2323#	2323	2325	2652	2653							
	2757	2803#	2025	2072	2070							
SGDO SGDO1	2849	2858	2949#									
SGD01 SGD02	2922	2956#	2949#									
SGDOZ	2525	2807#										
	2883	2895	2957#									
SGDOER	2883	2712#	29214									
SGERR1	2474	2667	2701	2703#								
SGERRA SGIOCK	2821	2823#	2701	270,00								
		2774	2777#	3083								
SGREL	2528 2783	2787#	2///#	0000								
SGREL1	2626	2706	2713	2828	2997	3024	3063#					
SGRELE		3035	3057#	2020	2997	002 1	01004					
SGRELL	2534	3073	3083#									
SGRLE1	3065 790	915	2370#									
SGSET SGSET1	2395	2399#	20/04									
SHF	2395	2399#										
SHFWRD SHRSFG	1401 6#	1414 6										
		1606#										
SKED1 SKEDJL	1598 482	1597#										
SKIPS	1785	1839	1859#	2143	2150							
SKIPS1	1788	1839	1860#	2086	2129	2155						
SKIPS2	1866	1869#	1000%	2000								
SKIPSZ	1864	1863	1872#									
SKIPSA	1863#	1870	10/24									
SKPBR1	271	274#										
JACONI	2/1	67 m										

SKPBR2	270#	275												
SKPBRK	211	269#	900											
SLEVEL	6#	6												
SLICE	6#	6												
SNA														
	6#	6												
SNOARG	626	638#		1015										
SPCHEK	267	270	1857	1865										
SPYSEG	6#	6												
SSAVE	465	787#												
START	456	614#												
STARTC	475	621#												
STATES	1595	1603	1606											
STOP	457	675#												
STOP1	58	683												
STOPB	675	684#												
STOPC	1761	1764#												
STOPCK	68Ø	1757#												
STOPD	1759#	1767												
STOPIO	6#	6												
STOTAC	59	3075												
STRED	981	984												
STTYR1	6#	6												
		•												
STTYBE	6#	6												
STUSER	673	676	171Ø	1715										
SWP	6#	6	151	1.1-										
SWPCLR	6#	6												
SYSDEV	6#	6	1332											
SYSPP	868	888	1255	1316	1320									
SYSTAP	924	955	962	981	986	1633	1637							
SYSTAT	487	832#	102	101	200	1030	1007							
T	62#	72	75	76	78	79					•			
1							81	87	88	90	91	93	95	126
	107	134	151	197	199	214	216	223	225	227	569	571	572	821
	873	964	969	1254	1255	1261	1262	1319	1320	1334	1335	1687	1689	1698
~ 1	1706	1797	1722	1781#	1790	1805	1876	1884	1901	1904	2024	2025		
Τ1	63#	73	74	80	119	120	276	219	220	224	244	246	248	251
	254	256	262	931	932	936	951	953	966	1219	1220	1673	1674	1632
-0	1689	1690	1691	1782#										
T2	64#	79	80	83	1671	1672	1681	1783#						
T3	65#	87	90											
T 4	66#	77	85	86	89									
TAC	6#	6	98	111	137	170	215	216	232	235	269	272	532	549
	557	576	577	578	59Ø	662	701	724	757	758	772	807	828	8.9
	820	829	835	844	845	846	859	870	877	878	885	888	890	891
	892	897	961	943	950	955	962	965	966	999	1001	1002	1004	1019
	1023	1026	1028	1042	1056	1065	1073	1123	1125	1127	1130	1131	1133	1134
	1136	1146	1147	1148	1156	1158	1164	1165	1172	1177	1179	1182	1185	1190
	1257	1264	1266	1272	1279	1283	1287	1292	1297	1322	1326	1327	1336	1337
	1339	1341	1353	1367	1368	1370	1371	1372	1373	1374	1375	1378	1379	1352
	1392	1383	1384	1385	1386	1387	1389	1392	1409	1414	1415	1419	1420	1424
	1428	1432	1440	1441	1444	1446	1452	1453	1472	1487	1513	1514	1518	1522
	1558	1561	1574	1575	1586	1600	1671	1606	1636	1637	1645	1670	1677	1678
	1741	1759	1760	1765	1766	1867	1936	1951	1952	1972	1974	1991	2001	2011
	2179	2181	2182	2183	2187	2191	2192	2195	2196	2197	2199	2201	2202	2226
	·					/-	/-	· · · ·		C 1 7 /	(<u>1</u> 77	C C 87	C C V C	2200

	2211	2224	2266	2292	2293	2301	2419	2420	2404					
	2438	2440	2442	2462	2481	2482	2483	2484	2421 2492	2422 2499	2423	2425	2427	2429
	2516	2517	2518	2519	2520	2521	2529	2532	2537	2552	2501 2590	25Ø6 2595	2513 2596	2515
	2642	2647	2650	2661	2672	2674	2678	2680	2681	2682	2683	2688		2625
	2694	2695	2705	2709	2712	2715	2750	2751	2753	2759			2690	2693
	2768	2769	2780	2781	2811	2812	2826	2830	2848	2850	2760	2761	2763	2764
	2862	2863	2864	2865	2866	2868	2870	2871	2873	2874	2851	2853	2860	2861
	2888	2890	2892	2903	2904	2905	2906	2908	2910	2911	2881 2914	2882	2885	2887
	2930	2935	2936	2937	2939	2940	2943	2945	2946	2949		2915	2916	2927
	2971	2972	2973	2985	2986	2987	2995	2996	2999		2951	2953	2955	2957
	3026	3033	3044	3061	3067	3070	3071	3084	2999	3000	3002	3014	3015	3023
TAC1	6#	6	72	81	83	91	92	96	103	135	148	4 5 7	150	
	161	165	167	173	192	193	194	203	529	531	587	153 589	158	160
	654	659	698	699	720	723	724	902	927	929			638	646
	983	986	1019	1029	1030	1039	1055	1056	1070	1098	936 1107	943 1108	946	948
	1127	1141	1143	1144	1145	1178	1187	1216	1217	1220	1224	1228	$1112 \\ 1233$	1113
	1257	1265	1267	1276	1318	1322	1329	1340	1341	1370	1373	1380	1384	1238
	1406	1407	1409	1471	1472	1506	1509	1536	1540	1547	1556	1559	1561	1389
	1565	1569	1570	1572	1576	1603	1635	1636	1643	1674	1675	1678	1699	1564
	1720	1742	1743	1745	1758	1762	1790	1828	1860	2028	2029	2032	2040	1703 2104
	2105	2147	2154	2180	2187	2195	2108	2206	2224	2238	2239	2241	2242	
	2244	2260	2270	2370	2371	2372	2374	2375	2376	2377	2382	2397	2398	2243 2399
	2400	2429	2430	2457	2459	2493	2500	2502	2503	2505	2502	2507	2508	2509
	255Ø	2563	2598	2602	2608	2611	2612	2686	2687	2745	2749	2752	2867	
	2874	2875	2878	2880	2884	2885	2886	2891	2892	2898	2899	2905	2909	2868
	2943	2944	2947	2973	3039	3042	3059	3060	3063	3064	3068	3070	3072	2918
TAKR	1797	1798	1857	1861					0000	0004	5000	0070	5072	
TALK	483	1470#												
TALK1	1474	1477	1484#											
TALK2	1471	1480#												
TEM	6#	6	210	275	1620	1622	1798	1804	1806	1809	1811	1812	1813	1814
	1816	1817	1824	1826	1829	1861	1862	1864	1869	1872	1874	1907	1911	1953
	1954	1982	2090	2091	2094	2095	2097	2098	2100	2101	2102	2105	2132	2134
	2135	2148	2156	2210	238Ø	2491	2514	2515			6406	2102	2 I U Z	2134
TEMP1	1260	1325	1328	1333	1344#									
TEMP2	1331	1346#												
THSDAT	1359	1378												
TIME	1359	1375	1392											
TISYNC	209	212	1899	1910										
TITAKR	209	210	267	1899	1901	1904								
TOOLOW	2877	2927#	2942											
TPOPJ	267	273	276	1500	1526	1827	1830	1875	1948	1954	2251	3018		
TRESCN	1899	1902												
TRNERR	6#	6	2826											
TSETBF	1243	1244												
TTIME	125	1401	1409	1428	1446									
TTYATC	6#	6												
TTYATI	54	228		2.10										
TTYATT	53	839	848	849	1204	1239								
TTYBIU TTYCM	6#	6												
TTYCOM	1731	1746												
TTYDET	51	67												
TIUEI	1308	1318												

TIVEND	1274	1246												
TEYENU	5.5	534	2642											
TTYFIN	2775	2778	2789											
TTYKI	564	599	6/07											
TTYRNC	254	314#	463	464	465									
TTYRNU	251	312#	456	460	461	473	475	476	1143					
-	491	492	493	404	401	466	472	474	484	486	487	488	489	440
TTYSTR	53	257	443	404	495	496	497	498	499	516	521	592	576	
TTYTAB	54	216	1267	1316										
TTYTLK	1468	1476	1201	1310	1341									
TTYUSE	6#	6												
TTYUSR	53	253												
TYDINS	1955#	2.70												
JCHN	6#	6	1154	115>	1157	1110								
JGETHI	2622	2623	11)4	1100	1107	1160	11^1	1646	1647	1649	1650	1653	1654	
IGTERR	2618	2625#												
IGTSEG	2618	2619#												
JIOMOD	6#	6												
JPTIME	59	1432												
JRUN	2583	2586#												
JRUN1	2564	2597#												
JSRDDT	2639	2675	2812											
JSRHCU	1154	1633	1646	2485	2521	2800	2873	2813						
ISRJDA	1155	1633	1647	2771	2670	3055	3076	2010						
ISRMOD	6#	6	1575	2611	3064	0175	5670							
ISRRFL	2639	2678	2764	2768										
ISRXIT	59	2613	3080											
ISTART	59	659												
iuo	6#	6	64	1094	1695	1296	1097	1098	1120	1128	4 4 4 7			
	1169	1173	1174	1179	1192	1529	1510	1648	1652	1783	1113 2293	1114 2301	1138	1151
	3068	3074							1022	1/00	2243	2301	2419	2590
UDERR	59	2627												
WP	6#	6												
WPOFF	6#	6												
COMON	14#	14												
IRTAL	768	772	376	877										
DPJIF	1401	1415	1420											
LRIT	1668	1675												
TMASK	6#	6												
ERSWP	536	538												

С	397# 415 429 443 463 477 491	402 416 430 444 464 478 492	403 417 431 445 465 479 493	404 418 432 446 466 480 494	405 419 433 447 467 481 495	406 420 434 468 468 482 496	477 421 435 452# 469 483 497	408 422 436 456 470 484 498	409 423 437 457 471 485 499	410 424 438 458 472 486 500	411 425 439 459 473 487 501	412 426 440 460 474 488 502	413 427 441 461 475 489	414 428 442 462 476 490
CODES DISABL ENABLE NAMES NOSCHE NOSCHE QUEUES SCHEDU	6# 6# 322# 6# 6# 6#	401	455											
SHUFFL STARTD XP	6# 6# 2341	6 2343	13 2345	2310 2349	2312	2314	2316	2320	2322	2324	2330	2332	2334	2339