



NETX

SOFTWARE

-SAF 1981/09/17 09:20:58 HRF ASSEMBLER

DTSS L-6 HOST RESIDENT FACILITY PAGE 0001

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2 TITLE NETX SOFTWARE  
4 XDEF E\$NETX           NEEDED FOR MODULE MAP  
5 S\$NETX EQU \$           START OF MODULE NETX  
6 \*  
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000021		1000	/EJECT			
000022		1001	*			
000023		1002	*IO DRIVERS			
000024		1003	*			
000025	0000	1004	\$IOCH0	EQU	Z'0000'	IO CHANNELS
000026	0040	1005	\$IOCH1	EQU	Z'0040'	
000027	0080	1006	\$IOCH2	EQU	Z'0080'	
000028	00C0	1007	\$IOCH3	EQU	Z'00C0'	
000029		1008	*			
000030	0001	1009	\$OTCTL	EQU	Z'0001'	CONTROL INFORMATION OUTPUT
000031	0002	1010	\$ICTLI	EQU	Z'0002'	INPUT INT CONTROL INFO
000032	0003	1011	\$ICTLO	EQU	Z'0003'	OUTPUT INT CONTROL INFO
000033	0005	1012	\$OCCTL	EQU	Z'0005'	OUTPUT CHANNEL CONTROL
000034	0006	1013	\$TSKRI	EQU	Z'0006'	INPUT TASK REGISTER
000035	0007	1014	\$TSKRO	EQU	Z'0007'	OUTPUT TASK REGISTER
000036	0008	1015	\$INMBA	EQU	Z'0008'	INPUT MEMORY BYTE ADDRESS
000037	000A	1016	\$INMMA	EQU	Z'000A'	INPUT MEMORY MODULE ADDRESS
000038	000C	1017	\$INRNG	EQU	Z'000C'	INPUT RANGE RESIDUE
000039	000F	1018	\$OBCTL	EQU	Z'000F'	OUTPUT BUFFER CONTROL
000040	0010	1019	\$CFGAI	EQU	Z'0010'	INPUT CNFG REGISTER A
000041	0011	1020	\$CFGAO	EQU	Z'0011'	OUTPUT CNFG REGISTER A
000042	0012	1021	\$CFGBI	EQU	Z'0012'	INPUT CNFG REGISTER B
000043	0013	1022	\$CFGBO	EQU	Z'0013'	OUTPUT CNFG REGISTER B
000044		1023	*			
000045	0018	1024	\$ISTS1	EQU	Z'0018'	INPUT STATUS REG 1
000046	001A	1025	\$ISTS2	EQU	Z'001A'	INPUT STATUS REG 2
000047	0026	1026	\$IDINP	EQU	Z'0026'	INPUT DEVICE ID
000048		1027	*			
000049	0009	1028	\$IOLD	EQU	Z'0009'	SIMPLE LOAD (NO DIRECTION)
000050	0009	1029	\$IOLDI	EQU	\$IOLD+\$IOCH0	LOAD AND START DCW EXECUTION (TO US)
000051	0049	1030	\$IOLD0	EQU	\$IOLD+\$IOCH1	LOAD AND START DCW EXECUTION (FROM US)
000052		1031	*			
000053		1032	*MISCELLANEOUS CHANNELS			
000054		1033	*			
000055	0000	1034	CPUOCH	EQU	0	CHANNEL OF CPU#0
000056	0400	1035	BTLDCH	EQU	Z'0400'	BOOTLOAD CHANNEL
000057		1036	*			
000058		1037	*			
000059		1038	*CLOCK BLOCK DEFINITIONS			
000060		1039	*			
000061	0001	1040	FPTR	EQU	1	FIRST BLOCK POINTER
000062	0002	1041	LPTR	EQU	2	LAST BLOCK POINTER (SAF)
000063		1042	*			
000064	0003	1043	USRDTA	EQU	3	START OF DATA IN QUEUE BLOCKS
000065		1044	*			
000066	0003	1045	SWORD	EQU	3	S-REGISTER OR STATUS
000067	0004	1046	UWORD	EQU	4	USERS XB7
000068	0006	1047	RWORD	EQU	6	RUN ADDRESS

000069		2000 /EJECT		
000070		2001 *		
000071		2002 *ASCII VALUES		
000072		2003 *		
000073		2004 *CONTROL CHARACTERS		
000074		2005 *		
000075	000D	2006 \$ASCCR EQU	13	
000076	000A	2007 \$ASCLF EQU	10	
000077	001B	2008 \$ASCEC EQU	27	
000078	000A	2009 \$CRLF EQU	\$ASCCR+Z'0100'+\$ASCLF	C/R L/F PAIR
000079		2010 *		
000080		2011 *NUMBERS (0-9)		
000081		2012 *		
000082	0030	2013 \$ASCO EQU	48	
000083	0031	2014 \$ASC1 EQU	49	
000084	0032	2015 \$ASC2 EQU	50	
000085	0033	2016 \$ASC3 EQU	51	
000086	0034	2017 \$ASC4 EQU	52	
000087	0035	2018 \$ASC5 EQU	53	
000088	0036	2019 \$ASC6 EQU	54	
000089	0037	2020 \$ASC7 EQU	55	
000090	0038	2021 \$ASC8 EQU	56	
000091	0039	2022 \$ASC9 EQU	57	
000092		2023 *		
000093		2024 *LETTERS (A-Z)		
000094		2025 *		
000095	0041	2026 \$ASCA EQU	65	
000096	0042	2027 \$ASCB EQU	66	
000097	0043	2028 \$ASCC EQU	67	
000098	0044	2029 \$ASCD EQU	68	
000099	0045	2030 \$ASCE EQU	69	
000100	0046	2031 \$ASCF EQU	70	
000101	0047	2032 \$ASCG EQU	71	
000102	0048	2033 \$ASCH EQU	72	
000103	0049	2034 \$ASCI EQU	73	
000104	004A	2035 \$ASCJ EQU	74	
000105	004B	2036 \$ASCK EQU	75	
000106	004C	2037 \$ASCL EQU	76	
000107	004D	2038 \$ASCM EQU	77	
000108	004E	2039 \$ASCN EQU	78	
000109	004F	2040 \$ASCO EQU	79	
000110	0050	2041 \$ASCP EQU	80	
000111	0051	2042 \$ASCQ EQU	81	
000112	0052	2043 \$ASCR EQU	82	
000113	0053	2044 \$ASCS EQU	83	
000114	0054	2045 \$ASCT EQU	84	
000115	0055	2046 \$ASCU EQU	85	
000116	0056	2047 \$ASCV EQU	86	
000117	0057	2048 \$ASCW EQU	87	
000118	0058	2049 \$ASCX EQU	88	
000119	0059	2050 \$ASCY EQU	89	
000120	005A	2051 \$ASCZ EQU	90	

000121		2052 /EJECT		
000122		2053 *		
000123		2054 *SPECIAL CHARACTERS		
000124		2055 *		
000125	0020	2056 \$ASCSP	EQU	32
000126	0024	2057 \$ASCDL	EQU	36
000127	0027	2058 \$ASCAP	EQU	39
000128	0028	2059 \$ASCLP	EQU	40
000129	0029	2060 \$ASCRP	EQU	41
000130	002A	2061 \$ASCAS	EQU	42
000131	002B	2062 \$ASCPL	EQU	43
000132	002C	2063 \$ASCCM	EQU	44
000133	002D	2064 \$ASCDS	EQU	45
000134	002E	2065 \$ASCDT	EQU	46
000135	002F	2066 \$ASCFS	EQU	47
000136	003A	2067 \$ASCCN	EQU	58
000137	003B	2068 \$ASCSC	EQU	59
000138	003C	2069 \$ASCLT	EQU	60
000139	003D	2070 \$ASCEQ	EQU	61
000140	003E	2071 \$ASC GT	EQU	62
000141	003F	2072 \$ASCQM	EQU	63
000142	0040	2073 \$ASCAT	EQU	64
000143	005C	2074 \$ASCBS	EQU	92
000144	005E	2075 \$ASCUA	EQU	94
000145	005F	2076 \$ASCBA	EQU	95
000146	007F	2077 \$ASCRO	EQU	127
000147	7F7F	2078 \$RORO	EQU	\$ASCRO*Z'0100'+\$ASCRO TIME DELAY PAIR
000148		2079 *		
000149		2080 *CONTROL CHARACTERS		
000150		2081 *		
000151	0005	2082 \$ACCE	EQU	\$ASCE-64
000152	0018	2083 \$ACCX	EQU	\$ASCX-64
000153	001A	2084 \$ACCZ	EQU	\$ASCZ-64
000154		2085 *		
000155	0009	2086 \$ASCHT	EQU	9
000156	0008	2087 \$ASCVT	EQU	11
000157	000C	2088 \$ASCFF	EQU	12
000158	0019	2089 \$ASC EM	EQU	25
000159	001D	2090 \$ASC GS	EQU	29
000160	001E	2091 \$ASC RS	EQU	30

HORIZONTAL TAB  
 VERTICAL TAB  
 FORM FEED  
 END MEDIA  
 GROUP SEPERATOR  
 RECORD SEPERATOR

000161		2092 /EJECT			
000162		2093 *			
000163		2094 *SPEED ASSIGNMENT TABLES			
000164		2095 *			
000165	0000	2096 \$\$S10	EQU	0	
000166	0002	2097 \$\$S15	EQU	2	
000167	0003	2098 \$\$S30	EQU	3	
000168	0004	2099 \$\$S60	EQU	4	
000169	0005	2100 \$\$S120	EQU	5	
000170	0006	2101 \$\$S180	EQU	6	
000171	000A	2102 \$\$S240	EQU	10	
000172	000B	2103 \$\$S480	EQU	11	
000173	000C	2104 \$\$S960	EQU	12	
000174	000D	2105 \$\$S1920	EQU	13	
000175		2106 *			
000176	0010	2107 \$SMAX	EQU	16	
000177		2108 *			
000178		2109 *			
000179		2110 *SET MODE CONSTANTS			
000180		2111 *			
000181	0040	2112 SM\$000	EQU	Z'0040'	
000182		2113 *			
000183	0040	2114 SM\$ECH	EQU	Z'0040'	
000184	0041	2115 SM\$ROT	EQU	Z'0041'	
000185	0042	2116 SM\$MFR	EQU	Z'0042'	
000186	0043	2117 SM\$E00	EQU	Z'0043'	
000187	0044	2118 SM\$FRD	EQU	Z'0044'	
000188	0045	2119 SM\$RDO	EQU	Z'0045'	
000189	0046	2120 SM\$IDY	EQU	Z'0046'	
000190		2121 *			
000191	0060	2122 SM\$DLY	EQU	Z'0060'	
000192	0060	2123 SM\$DLO	EQU	SM\$DLY+0	
000193	0061	2124 SM\$DL1	EQU	SM\$DLY+1	
000194	0062	2125 SM\$DL2	EQU	SM\$DLY+2	
000195	0063	2126 SM\$DL3	EQU	SM\$DLY+3	
000196	0064	2127 SM\$DL4	EQU	SM\$DLY+4	
000197	0065	2128 SM\$DL5	EQU	SM\$DLY+5	
000198	0066	2129 SM\$DL6	EQU	SM\$DLY+6	
000199	0067	2130 SM\$DL7	EQU	SM\$DLY+7	
000200		2131 *			
000201	0068	2132 SM\$OMD	EQU	Z'0068'	
000202	0068	2133 SM\$OM0	EQU	SM\$OMD+0	
000203	0069	2134 SM\$OM1	EQU	SM\$OMD+1	
000204	006A	2135 SM\$OM2	EQU	SM\$OMD+2	
000205	006B	2136 SM\$OM3	EQU	SM\$OMD+3	

LEVEL6 CODING FOR SPEED TABLES

UP TO SIXTEEN DIFFERENT SPEED SETTINGS

BASE FOR MODE SETTING COMMANDS

SET ECHOPLEX  
 SET RAW OUTPUT  
 MAINFRAME READY  
 MAINFRAME LOGICAL END OF OUTPUT  
 SET FRIDEN MODE  
 READ OUTSTANDING  
 IDLE DELAY (TIME/FILL)

SET DELAY PARAMETERS

SET OUTPUT MODE

000206		3000 /EJECT			
000207		3001 *			
000208		3002 *HARDWARE SPECIFIC INFORMATION			
000209		3003 *			
000210		3004 *START OF INTERRUPT VECTOR (IV00) AND FAULT VECTOR (FV00)			
000211		3005 * +1=IV01 -1=FV01			
000212		3006 ***** IVECT EQU Z'0080'			
000213		3007 *			
000214		3008 *BIT MASK ASSIGNMENTS			
000215		3009 *			
000216	0001	3010 \$MKB7 EQU Z'0001'			
000217	0002	3011 \$MKB6 EQU Z'0002'			
000218	0004	3012 \$MKB5 EQU Z'0004'			
000219	0008	3013 \$MKB4 EQU Z'0008'			
000220	0010	3014 \$MKB3 EQU Z'0010'			
000221	0020	3015 \$MKB2 EQU Z'0020'			
000222	0040	3016 \$MKB1 EQU Z'0040'			
000223	0080	3017 \$MKI EQU Z'0080'			
000224	0100	3018 \$MKR7 EQU Z'0100'			
000225	0200	3019 \$MKR6 EQU Z'0200'			
000226	0400	3020 \$MKR5 EQU Z'0400'			
000227	0800	3021 \$MKR4 EQU Z'0800'			
000228	1000	3022 \$MKR3 EQU Z'1000'			
000229	2000	3023 \$MKR2 EQU Z'2000'			
000230	4000	3024 \$MKR1 EQU Z'4000'			
000231	8000	3025 \$MKM1 EQU Z'8000'			
000232		3026 *			
000233	7000	3027 \$MKR13 EQU \$MKR1+\$MKR2+\$MKR3			
000234	0F00	3028 \$MKR47 EQU \$MKR4+\$MKR5+\$MKR6+\$MKR7			
000235	0070	3029 \$MKB13 EQU \$MKB1+\$MKB2+\$MKB3			
000236	000F	3030 \$MKB47 EQU \$MKB4+\$MKB5+\$MKB6+\$MKB7			
000237	9090	3031 \$MKSTD EQU \$MKM1+\$MKI+\$MKR3+\$MKB3			STANDARD REGISTERS TO SAVE
000238		3032 *			
000239		3033 *			
000240		3034 *IV SAVED REGISTERS OFFSET			
000241		3035 *			
000242	FFFC	3036 \$IVLEV EQU Z'FFFC'			LEVEL ASSOCIATED (SOFT)
000243	FFFF	3037 \$IVTSA EQU Z'FFFF'			TSAP
000244	0000	3038 \$IVDEV EQU 0			DEVICE
000245	0001	3039 \$IVMSK EQU 1			MASK
000246	0003	3040 \$IVP EQU 3			
000247	0004	3041 \$IVS EQU 4			
000248	0005	3042 \$IVREG EQU 5			START OF REGISTERS
000249	000B	3043 \$IVB1 EQU 11			
000250	000C	3044 \$IVI EQU 12			
000251	0013	3045 \$IVR1 EQU 19			
000252	0014	3046 \$IVM1 EQU 20			
000253	001B	3047 \$IVT EQU 27			

000254		3048	/EJECT				
000255		3049	*				
000256		3050	*TRAP SAVE AREA OFFSETS				
000257		3051	*				
000258	0000	3052	\$TSAL	EQU	0	NEXT LINK	
000259	0001	3053	\$TSAI	EQU	1	INDICATOR REGISTER	
000260	0002	3054	\$TSAR3	EQU	2	XR3	
000261	0003	3055	\$TSACM	EQU	3	COMMAND	
000262	0004	3056	\$TSAZ	EQU	4	Z-WORD	
000263	0005	3057	\$TSAA	EQU	5	ADDRESS	
000264	0006	3058	\$TSAP	EQU	6	P-REGISTER	
000265	0001	3059	\$TSAPX	EQU	\$TSAP-\$TSAA	P-REG AS ADDRESSED BY TRAP ROUTINE	
000266	0007	3060	\$TSAB3	EQU	7	XB3	
000267	0003	3061	\$TSATM	EQU	8-\$TSAA	TEMP WORD	
000268	0008	3062	\$TSAWD	EQU	8	FOR NON-TRAP ROUTINES, THE TEMP WORD	
000269	0009	3063	\$TSALN	EQU	9	LENGTH OF TRAP SAVE AREA	
000270		3064	*				
000271		3065	*				
000272	6000	3066	\$SRGP3	EQU	Z'6000'	SREGISTER PRIORITY 3	
000273		3067	*				
000274		3068	*				
000275		3069	*LEVEL INSTRUCCION WORDS				
000276		3070	*				
000277	803F	3071	\$LVEXI	EQU	Z'803F'	SUSPEND, SCAN, AND DISPATCH	
000278	4000	3072	\$LVSCH	EQU	Z'4000'	SCHEDULE INTERRUPT, DEFER	
000279	8000	3073	\$LVEXE	EQU	Z'8000'	SUSPEND, SCAN, SCHEDULE, AND DISPATCH	
000280	0000	3074	\$LVENT	EQU	Z'0000'	SCHEDULE, SCAN, DISPATCH (RETURN LATER)	
000281	0080	3075	\$LVDIS	EQU	Z'0080'	INHIBIT	
000282	8080	3076	\$LVDSX	EQU	Z'8080'	SUSPEND, INHIBIT	
000283	0000	3077	\$LV DIE	EQU	\$LVENT+0	CRASH LEVEL INSTRUCTIONS DATA	
000284		3078	*				
000285		3079	*MODE REGISTER CONSTANTS				
000286		3080	*				
000287	8030	3081	\$M1JST	EQU	Z'8030'	SET JUMP TRACE	
000288	8000	3082	\$M1JRS	EQU	Z'8000'	RESET JUMP TRACE	
000289	0080	3083	\$M1JTS	EQU	Z'0080'	TEST JUMP TRACE	



000290		3084 /EJECT			
000291		3085 *			
000292		3086 *ASSIGNED LEVELS			
000293		3087 *			
000294	0000	3088 ERRLEV	EQU	0	POWER FAIL AND CRASH LEVEL
000295	0001	3089 WDTLEV	EQU	1	WATCH DOG TIMER LEVEL
000296	0002	3090 TSOVLV	EQU	2	TRAP SAVE AREA OVERFLOW AREA
000297	0003	3091 HANGLV	EQU	3	STARTUP AND HANG LEVEL
000298	0004	3092 RTCLEV	EQU	4	REAL TIME CLOCK LEVEL
000299	0005	3093 WATLEV	EQU	5	WATCH COPY LEVEL
000300	0008	3094 MCPLEV	EQU	8	ASYNCP MLCP LINE CARD
000301	000A	3095 SX25LV	EQU	10	SYNCP MLCP LINE CARD (USING X25)
000302	0010	3096 CPLRLV	EQU	16	COUPLER LEVELS (16,17,18,19)
000303	0030	3097 NETLEV	EQU	48	X25 NETWORK PACKET LEVEL
000304	0031	3098 SBSCLV	EQU	49	SYNCP MLCP LINE CARD (USING BSC)
000305	0036	3099 CNSLEV	EQU	54	CONSOLE HARDWARE LEVEL (BASE FOR SOFTWARE)
000306	0037	3100 SYCLEV	EQU	CNSLEV+1	SYSTEMS CONTROL LEVEL
000307	0038	3101 MSGLEV	EQU	SYCLEV+1	SYSTEMS MESSAGES LEVEL
000308	003C	3102 DBGLEV	EQU	60	DEBUGGER PRIMARY; SECONDARY=+1
000309	003E	3103 DEVLEV	EQU	62	LOWEST LEVEL FOR INVERTED SYNCHRONIZATION
000310		3104 *			
000311	0078	3105 ONESEC	EQU	120	CLOCK IS 120 TIMES PER SECOND (.0083333)

000312		4000 /EJECT		
000313		4001 *		
000314		4002 *INPUT MESSAGE BUFFER DEFINITION		
000315		4003 *		
000316		4004 *FIRST BUFFER IN LINK WORD(0)		
000317	0002	4005 CURBUF EQU 2		CURRENT BUFFER ADDRESS
000318	0003	4006 CURLEN EQU CURBUF+1		CURRENT LENGTH
000319	0004	4007 NSBERR EQU CURLEN+1		ERROR COUNTERS
000320	0005	4008 MFLAGS EQU NSBERR+1		INTERNAL TO MESSAGE FLAGS
000321		4009 *		
000322		4010 *		
000323		4011 *INTERNAL TO MESSAGE FLAGS (MFLAGS)		
000324		4012 *		
000325	8000	4013 LTLONG EQU Z'8000'		LINE IS CURRENTLY TOO LONG
000326	4000	4014 IFINAL EQU Z'4000'		FINAL DELIVERY
000327	2000	4015 TRPCLK EQU Z'2000'		FINAL DELIVERY TRAPS CLOCKING READ
000328		4016 *		
000329		4017 *		
000330		4018 *MESSAGE STYLE BLOCK DEFINITION		
000331		4019 *		
000332	0000	4020 FRSTCK EQU 0		FIRST CLOCK TO SET
000333	0001	4021 SCNDCK EQU FRSTCK+1		SECOND (SUBSEQUENT) CLOCK TO SET
000334	0002	4022 INPMAX EQU SCNDCK+1		MAX LINE LENGTH
000335	0003	4023 STYFGS EQU INPMAX+1		INPUT STYLE BITS
000336		4024 *		
000337		4025 *		
000338		4026 *DEFINITIONS OF INPUT STYPE BITS		
000339		4027 *		
000340	8000	4028 UNEDIT EQU Z'8000'		DATA SHOULD NOT BE EDITED
000341	4000	4029 IGNLTL EQU Z'4000'		LINE TOO LONGS ARE IGNORED (ELSE MSG ABORT)
000342	2000	4030 IGNSB EQU Z'2000'		NO-STOP-BIT ERRORS ARE COUNTED AND FLAGGED
000343	1000	4031 ESCQTL EQU Z'1000'		ESCAPES DONE WITH NO MESSAGE
000344	0800	4032 ESCDTA EQU Z'0800'		ESCAPE IS DATA (ELSE IT IS LINE CANCEL)
000345	0400	4033 BKRDTA EQU Z'0400'		BACKARROW IS DATA (ELSE IT IS CHARACTER DELETE)
000346	0200	4034 IGNENQ EQU Z'0200'		ENQUIRY IS IGNORED (ELSE MSG GENERATED)
000347	0100	4035 IGNLFD EQU Z'0100'		LINE FEEDS IGNORED (ELSE TREATED AS DATA)
000348	0080	4036 IGNDEL EQU Z'0080'		RUBOUTS ARE IGNORED (ELSE TREATED AS DATA)
000349	0040	4037 IGNUll EQU Z'0040'		NULLS ARE IGNORED (ELSE TREATED AS BREAK)

000350		10000	/EJECT		
000351		10010	*		
000352		10020	*	PACKET LEVEL X25 STYLE NETWORK PROCESSOR	
000353		10030	*		
000354		10040		XDEF	INITNT INITIALIZATION ROUTINE
	091B				
000355		10050	*		
000356		10060		XDEF	XNTOFL,XNTOFL,XNTINC,XNTINM,XNTOTM
	0000				
	009E				
	0121				
	012A				
	0512				
000357		10070	*		
000358		10080		XDEF	NETSET,NETONL,NETBRK,NETRDY
	0857				
	08B1				
	08DE				
	08CB				
000359		10090	*		
000360		10100		XDEF	NETMDS X25 NETWORK USER MODE SETTINGS
	0855				
000361		10110	*		
000362		10120		XLOC	TSKRTR,TSKRTE TASK RETURNS
000363		10130	*		
000364		10140		XLOC	SMCPXT,CINMGX,CLOUTQ,CKOUTQ SYNC ROUTINES
000365		10150	*		
000366		10160		XLOC	\$IVECT,SERROR LOW CORE
000367		10170	*		
000368		10180		XLOC	GETBLK,RELBLK,GETMEM,RELMEM,FRBLKS
000369		10190		XLOC	GFWBLK,GWORDF,PWORDG,GFBBLK
000370		10200		XLOC	GBYTEF,GBYTEB,GBYTXB,PBYTEG,PBYTXG,SETBPT
000371		10210	*		
000372		10220		XLOC	ADDCLK,KILCLK CLOCK ROUTINES
000373		10230		XLOC	ASNTSK,BLDTSK TASK ROUTINES
000374		10240	*		
000375		10250		XLOC	MGSTRT,MGCOPY,MGSEND,MGCHNL,MONNET
000376		10260		XLOC	MGCHAR,MGHEX,MGHEXH
000377		10270	*		
000378		10280		XLOC	DEVKOT,DVGOUT,DVROUT,DQRBRK,DQRDSC
000379		10290		XLOC	DVKINP,DVPINP,DVFINP,DVIMSG
000380		10300		XLOC	NETINP,DEVMDS
000381		10310	*		
000382		10320		XLOC	NETCHK,NETCON,NETCNX,FNETBK
000383		10330	*		
000384		10340		XLOC	SYSCON ADD USER TO SYSTEM
000385		10350	*		
000386		10360		XLOC	M\$CURB

000387		10370	/EJECT			
000388		10380	*			
000389		10390	*DEVICE BLOCK DEFINITION (PROTOTYPE)			
000390		10400	*			
000391		10410	*LEAVE ENOUGH ROOM FOR PRIORITY (CHANNEL) AND THREAD			
000392		10420	*			
000393	0002	10430	SOFTQ	EQU	2	USER QUEUES BASED ON LEVEL NUMBER
000394	0005	10440	OUTQ	EQU	SOFTQ+3	OUTPUT MESSAGES QUEUED
000395	0008	10450	DEVFGS	EQU	OUTQ+3	FLAGS USED TO SUPPORT DEVICE
000396	0009	10460	TSKINF	EQU	DEVFGS+1	POINTER TO TASK ROUTING
000397	000A	10470	TSKRET	EQU	TSKINF+1	TASK RETURN ADDRESS
000398	000B	10480	INPLEV	EQU	TSKRET+1	LEVEL OF USER WANTING INPUT
000399	000C	10490	INPMMSG	EQU	INPLEV+1	CURRENT INPUT MESSAGE
000400	000D	10500	ICTLBK	EQU	INPMMSG+1	CONTROL BLOCK FOR INPUT
000401	000E	10510	OUTLEN	EQU	ICTLBK+1	LENGTH OF ACTUAL OUTPUT TO BE SENT
000402		10520	*			
000403	000F	10530	DEVBKL	EQU	OUTLEN+1	LENGTH OF PROTOTYPE FOR DEVICE
000404		10540	*			
000405		10550	*			
000406		10560	*NETWORK USER BLOCK			
000407		10570	*			
000408	000F	10580	HOSTNT	EQU	DEVBKL	HOST NETWORK BLOCK ADDRESS
000409		10590	*			
000410	0010	10600	NETBKL	EQU	HOSTNT+1	LENGTH OF NETWORK USER DEVICE BLOCK
000411		10610	*			
000412		10620	*			
000413		10630	*DEVICE BLOCK DEFINITION FOR SYNCHRONOUS PORTS			
000414		10640	*			
000415	0010	10650	IBFMAX	EQU	NETBKL	INPUT MESSAGE BUFFER MAX
000416	0011	10660	PFLAGS	EQU	IBFMAX+1	PROTOCOL FLAGS
000417		10670	*			
000418	0012	10680	PCLFGS	EQU	PFLAGS+1	PROTOCOL USAGE FLAGS
000419	0013	10690	GENCLK	EQU	PCLFGS+1	GENERAL PURPOSE CLOCKS
000420	0014	10700	CLKVAL	EQU	GENCLK+1	LAST VALUE LOADED INTO CLOCK
000421	0015	10710	MOTHER	EQU	CLKVAL+1	MOTHER BOARD INFORMATION BLOCK
000422	0016	10720	CIVDEV	EQU	MOTHER+1	LAST ACTUAL INTERRUPT DEV WORD
000423	0017	10730	DSSTAT	EQU	CIVDEV+1	BITS 0-7=LAST DATA SET, 8-15=SPEED CODE
000424		10740	*			
000425	0018	10750	IMSGFB	EQU	DSSTAT+1	FIRST IN CHAIN OF INPUT
000426	0019	10760	IMSGFP	EQU	IMSGFB+1	..AND POINTER
000427	001A	10770	IMSGLB	EQU	IMSGFP+1	LAST IN CHAIN OF INPUT
000428	001B	10780	IMSGLP	EQU	IMSGLB+1	..AND POINTER
000429	001C	10790	IMSGMB	EQU	IMSGLP+1	START OF MESSAGE
000430	001D	10800	IMSGML	EQU	IMSGMB+1	MESSAGE LENGTH
000431	001E	10810	IMSGNB	EQU	IMSGML+1	NEXT BUFFER TO BE RETURNED
000432	001F	10820	MSGCB	EQU	IMSGNB+1	LAST BUFFER SUPPLIED
000433		10830	*			
000434	0020	10840	ICCBCT	EQU	MSGCB+1	INPUT CCB COUNT
000435	0021	10850	ICCBST	EQU	ICCBCT+1	INPUT CCB STATUS
000436	0022	10860	IBFCNT	EQU	ICCBST+1	BUFFERS CURRENTLY USED FOR INPUT
000437	0023	10870	ICTLCD	EQU	IBFCNT+1	CONTROL CODE LAST RECEIVED
000438	0024	10880	IERRCT	EQU	ICTLCD+1	INPUT ERROR COUNTER

000439		10890 *				
000440	0025	10900 OMSGFB	EQU	IERRCT+1	FIRST IN CHAIN OF OUTPUT	
000441	0026	10910 OMSGFP	EQU	OMSGFB+1	..AND POINTER	
000442	0027	10920 OMSGCB	EQU	OMSGFP+1	CURRENT IN CHAIN OF OUTPUT	
000443	0028	10930 OMSGCP	EQU	OMSGCB+1	..AND POINTER	
000444	0029	10940 OMSGLB	EQU	OMSGCP+1	LAST IN CHAIN OF OUTPUT	
000445	002A	10950 OMSGLP	EQU	OMSGLB+1	..AND POINTER	
000446	002B	10960 OMSGMB	EQU	OMSGLP+1	START OF REMAINDER OF MESSAGE	
000447	002C	10970 OMSGML	EQU	OMSGMB+1	LENGTH OF REMAINING MESSAGE	
000448		10980 *				
000449	002D	10990 OCCBCT	EQU	OMSGML+1	OUTPUT CCB COUNTER	
000450	002E	11000 OCCBST	EQU	OCCBCT+1	OUTPUT CCB STATUS	
000451	002F	11010 OCTLCD	EQU	OCCBST+1	CONTROL CODE LAST SENT	
000452	0030	11020 OERRCT	EQU	OCTLCD+1	OUTPUT ERROR COUNTER	
000453		11030 *				
000454	0031	11040 X25CMD	EQU	OERRCT+1	X25 COMMAND STORAGE	
000455	0032	11050 X25FGS	EQU	X25CMD+1	X25 FLOW CONTROL BITS	
000456	0033	11060 SPCMSG	EQU	X25FGS+1	X25 FRAME REJECT MESSAGE	
000457		11070 *				
000458	0034	11080 STEMP	EQU	SPCMSG+1	TEMPORARIES FOR SYNC LOGICAL ROUTINES	
000459		11090 *				
000460	0040	11100 SMCPBL	EQU	STEMP+12	LENGTH OF SYNC BLOCK	

000461		11110	/EJECT			
000462		11120	*			
000463		11130	*COMMON DEFINITIONS FOR DEVICE FLAGS (DEVFGS)			
000464		11140	*			
000465	8000	11150	SONOFF	EQU	Z'8000'	ONLINE/OFFLINE
000466	4000	11160	OFLTSK	EQU	Z'4000'	OFFLINE TASK HAS BEEN SENT
000467	2000	11170	SYNASN	EQU	Z'2000'	SYNC/ASYNCH SWITCH
000468		11180	*			
000469	0800	11190	LINKUP	EQU	Z'0800'	(X25) LINK IS IN LOGICALLY UP STATE
000470	0400	11200	RSTRM	EQU	Z'0400'	(X25) PACKET LEVEL NEEDS RESETTING
000471	0200	11210	RSTRTR	EQU	Z'0200'	(X25) RESTART RECEIVED
000472	0100	11220	RSTRTX	EQU	Z'0100'	(X25) RESTART SENT
000473		11230	*			
000474		11240	*			
000475		11250	*COMMON DEFINITIONS FOR PFLAGS (PROTOCOL/SETTINGS)			
000476		11260	*			
000477	8000	11270	SYNCRD	EQU	Z'8000'	THIS PORT IS ON SYNC LINECARD
000478	4000	11280	HAFDUX	EQU	Z'4000'	THIS CONNECTION IS USING HALF DUPLEX
000479	2000	11290	TRNSMG	EQU	Z'2000'	MESSAGES ARE TRANSPARENT
000480	1000	11300	DIRCON	EQU	Z'1000'	LINE IS DIRECTLY CONNECTED TO EQUIPMENT
000481		11310	*			
000482	0800	11320	INHUNG	EQU	Z'0800'	WE ARE HUNG UP WAITING FOR INPUT RQST
000483	0400	11330	IDLEOT	EQU	Z'0400'	WE ARE IDLE IF OUTPUT SHOULD ARRIVE
000484	0200	11340	X25PCL	EQU	Z'0200'	X25 PROTOCOL
000485	0100	11350	BSCPCL	EQU	Z'0100'	BYSYNCHRONOUS PROTOCOL
000486		11360	*			
000487		11370	*			
000488		11380	*X25 STATES			
000489		11390	*			
000490	0080	11400	LDNMOD	EQU	Z'0080'	LINK DOWN
000491	0040	11410	LSUMOD	EQU	Z'0040'	LINK SETUP
000492	0020	11420	LUPMOD	EQU	Z'0020'	LINK UP
000493	0010	11430	LRSMOD	EQU	Z'0010'	LINK RESET
000494	0003	11440	LDSMOD	EQU	Z'0003'	LINK DISCONNECTING
000495		11450	*			
000496	0004	11460	DCEDTE	EQU	Z'0004'	ACTING AS DCE(ON) OR DTE(OFF)
000497		11470	*			
000498		11480	*			
000499		11490	*BSC STATES			
000500		11500	*			
000501	0080	11510	TRNSLT	EQU	Z'0080'	DATA IS TRANSLATED (A-E,E-A)
000502	0040	11520	CTLMOD	EQU	Z'0040'	CONTROL STATE
000503	0020	11530	RCVMOD	EQU	Z'0020'	RECEIVE STATE
000504	0010	11540	XMTMOD	EQU	Z'0010'	TRANSMIT STATE
000505		11550	*			
000506	0008	11560	SP2780	EQU	Z'0008'	PROTOCOL IS FOR 2780
000507	0004	11570	SP3780	EQU	Z'0004'	PROTOCOL IS FOR 3780
000508	0002	11580	SPHASP	EQU	Z'0002'	PROTOCOL IS FOR HASP
000509	0001	11590	SPDUAL	EQU	Z'0001'	PROTOCOL IS DUAL LINES

000510		11600	/EJECT			
000511		11610	*			
000512		11620	*COMMON DEFINITIONS FOR PCLFGS (INTERNAL TO PROTOCOL)			
000513		11630	*			
000514	8000	11640	FRCOFL EQU	Z'8000'		WE ARE BEING FORCED OFFLINE
000515	4000	11650	DATAOK EQU	Z'4000'		DATA TRANSFERS ARE ALLOWED OR IN PROGRESS
000516	2000	11660	RUNRCV EQU	Z'2000'		RECEIVER IS RUNNING
000517	1000	11670	RUNXMT EQU	Z'1000'		TRANSMITTER IS RUNNING
000518		11680	*			
000519		11690	*			
000520		11700	*X25 STATES			
000521		11710	*			
000522	0800	11720	IDLCLK EQU	Z'0800'		CLOCK SET TO BREAK UP MONOTONY
000523	0400	11730	PRMSND EQU	Z'0400'		MESSAGE CAME FROM PRIMARY/SECONDARY
000524	0200	11740	TORCVY EQU	Z'0200'		IN TIMER RECOVERY CONDITION
000525	0100	11750	POLSNT EQU	Z'0100'		PRIMARY SENT POLLED COMMAND
000526	0080	11760	PRMPOL EQU	Z'0080'		PRIMARY WOULD LIKE TO SEND POLLED COMMAND
000527	0040	11770	SNDPOL EQU	Z'0040'		SECONDARY SENT POLLED COMMAND
000528	0020	11780	SNDREJ EQU	Z'0020'		SECONDARY DETECTED OUT OF SEQUENCE
000529	0010	11790	SNDRNR EQU	Z'0010'		SECONDARY INFORMED US OF UNWILLINGNESS
000530	0008	11800	REJSNT EQU	Z'0008'		WE INFORMED SECONDARY OF REJECT
000531	0004	11810	PRMREJ EQU	Z'0004'		WE WANT TO REJECT RECEIVED BLOCK
000532	0002	11820	RNRSNT EQU	Z'0002'		WE INFORMED SECONDARY OF UNWILLINGNESS
000533	0001	11830	PRMRNR EQU	Z'0001'		WE ARE NOT READY TO ACCEPT INPUT
000534		11840	*			
000535		11850	*			
000536		11860	*BSC STATES			
000537		11870	*			
000538	0080	11880	MDABRT EQU	Z'0080'		ABORTING THIS MODE
000539	0040	11890	ENDATA EQU	Z'0040'		THIS IS LAST PHYSICAL BUFFER
000540	0020	11900	SENTTD EQU	Z'0020'		SENDING TEXT DELAY
000541	0010	11910	BIDDNG EQU	Z'0010'		IN BIDDING SEQUENCE
000542	0008	11920	WACKNG EQU	Z'0008'		IN WAIT RESPONSE CYCLE
000543	0004	11930	MBACKG EQU	Z'0004'		RESPONSE MUST BE CORRECT ACK
000544	0002	11940	CBACKB EQU	Z'0002'		RESPONSE COULD BE INCORRECT ACK
000545	0001	11950	NXTACK EQU	Z'0001'		OFF=EVEN ACK...ON=ODD ACK

000546		11960	/EJECT			
000547		11970	*			
000548		11980	*TYMNET/X25 COMMON DEFINITIONS			
000549		11990	*			
000550	0034	12000	MSGBUF	EQU	STEMPS	MESSAGE BUFFER
000551	0035	12010	MSGPTR	EQU	MSGBUF+1	MESSAGE POINTER
000552	0036	12020	MSGLEN	EQU	MSGPTR+1	MESSAGE LENGTH
000553		12030	*			
000554	0037	12040	SVCUSR	EQU	MSGLEN+1	USER LAST SERVICED
000555	0038	12050	LSTUSR	EQU	SVCUSR+1	LAST USER TO SERVICE
000556	0039	12060	ADDRSS	EQU	LSTUSR+1	ADDRESS OF MESSAGE USER
000557	003A	12070	COMAND	EQU	ADDRSS+1	COMMAND CODE
000558		12080	*			
000559		12090	*X25 (RE-)DEFINITIONS			
000560		12100	*			
000561	003B	12110	MSGHDR	EQU	COMAND+1	FIRST BUFFER IN MESSAGE
000562	003C	12120	CONQ	EQU	MSGHDR+1	CONNECTION MESSAGES
000563	003F	12130	NETUSR	EQU	CONQ+3	MAP BLOCK IN USE
000564		12140	*			
000565	000E	12150	NETMAP	EQU	OUTLEN	MAP OF NETWORK USERS
000566	000C	12160	RNTCLK	EQU	INPMMSG	RE-REINIT CLOCK
000567		12170	*			
000568		12180	*			
000569		12190	*ADDITIONAL DEVICE FLAG (DEVFGS) DEFINITIONS			
000570		12200	*			
000571	0020	12210	TSKSNT	EQU	Z'0020'	(NETWORK) OUTPUT FILL TASK SENT
000572	0010	12220	CLKPRC	EQU	Z'0010'	(NETWORK) PROCESSING FOR CLOCK
000573		12230	*			
000574	0080	12240	BRKACT	EQU	Z'0080'	(NETUSER) BREAK ACTIVE
000575	0040	12250	DCRDTA	EQU	Z'0040'	(NETUSER) DISCARD ANY DATA RECEIVED
000576	0020	12260	QMFLSH	EQU	Z'0020'	(NETUSER) FLUSH QUALIFIED MESSAGES
000577		12270	*			
000578		12280	*NOTE:DONT VARY THESE FROM TYMNETS			
000579	0008	12290	OTPURE	EQU	Z'0008'	(NETUSER) OUTPUT SHOULD BE SENT PURE
000580	0004	12300	OTWAIT	EQU	Z'0004'	(NETUSER) OUTPUT MUST WAIT
000581	0002	12310	IGNRLF	EQU	Z'0002'	(NETUSER) IGNORE L/F IF FIRST IN OUTPUT QUEUE
000582	0001	12320	INOTWT	EQU	Z'0001'	(NETUSER) INPUT CAUSING OUTPUT TO WAIT



000583		12330	/EJECT			
000584		12340	*			
000585		12350	*DEFINITIONS OF NETUSR PAIR			
000586		12360	*			
000587		12370	*PRIMARY FLAGS IN 0			
000588	0001	12380	NETFGS	EQU	1	ADDITION FLAGS
000589	0002	12390	TOCLOK	EQU	2	TIMEOUT CLOCK
000590	0003	12400	RRCLOK	EQU	3	RECEIVE READY CLOCK
000591	0004	12410	NETBLK	EQU	4	DEVICE BLOCK OF NETWORK
000592	0005	12420	NETADR	EQU	5	ADDRESS ASSOCIATED WITH THIS BLOCK
000593	0006	12430	NTINFO	EQU	6	(AND 7) CONNECT INFORMATION
000594		12440	*			
000595	E000	12450	X\$MODE	EQU	Z'E000'	STATE OF LINE
000596		12460	*			
000597	2000	12470	X\$TWTG	EQU	Z'2000'	DTE WAITING FOR CALL CONNECTED
000598	4000	12480	X\$CWTG	EQU	Z'4000'	DCE WAITING FOR CALL ACCEPTED
000599	6000	12490	X\$TCLR	EQU	Z'6000'	DTE WAITING FOR CLEAR INDICATION
000600	8000	12500	X\$CCLR	EQU	Z'8000'	DCE WAITING FOR CLEAR CONFIRMATION
000601	A000	12510	X\$ITTX	EQU	Z'A000'	CONNECTION IN INFORMATION TRANSFER STATE (DTE)
000602	C000	12520	X\$ICTX	EQU	Z'C000'	CONNECTION IN INFORMATION TRANSFER STATE (DCE)
000603		12530	*			
000604	1000	12540	RSPOND	EQU	Z'1000'	SEND COMMAND/RESPONSE (CI,CC,OI,OC,II,IC)
000605	0800	12550	OUIOWN	EQU	Z'0800'	CONNECTION INITIATED BY OURSELVES
000606	0400	12560	DCERNR	EQU	Z'0400'	DCE INDICATED INABILITY TO RECEIVE
000607		12570	*			
000608	001C	12580	DTEPSN	EQU	Z'001C'	DTE PACKET SEQUENCE NUMBER
000609	0002	12590	DTEPSF	EQU	Z'0002'	DTE PACKETS FILLED WINDOW
000610	0003	12600	DTEPSC	EQU	Z'0003'	DTE PACKET COUNT
000611	0001	12610	DTEPSI	EQU	Z'0001'	DTE PACKET COUNTER
000612		12620	*			
000613		12630	*			
000614		12640	*DEFINITIONS OF NETFGS			
000615		12650	*			
000616	8000	12660	DTERNR	EQU	Z'8000'	RECEIVE NOT READY SENT
000617	4000	12670	DTEHNG	EQU	Z'4000'	NOT READY TO RECEIVE NEXT PACKET
000618	2000	12680	DTECLK	EQU	Z'2000'	RECEIVE READY CLOCK RUNNING
000619		12690	*			
000620	01C0	12700	DCEPSN	EQU	Z'01C0'	DCE PACKET SEQUENCE NUMBER
000621	0038	12710	DCEPSX	EQU	Z'0038'	DCE PACKET WINDOW SIZE
000622	0007	12720	DCEPSF	EQU	Z'0007'	DCE PACKETS FILLED
000623	0001	12730	DCEPSI	EQU	Z'0001'	DCE PACKET COUNTER
000624		12740	*			
000625	0012	12750	DCEPXX	EQU	Z'0012'	INITIAL DCE WINDOW SIZE SET TO (2)

000626		12760	/EJECT			
000627		12770	*			
000628		12780	*X25 PACKET LEVEL COMMANDS			
000629		12790	*			
000630	000B	12800	\$X25CI	EQU	Z'000B'	INCOMING CALL
000631	000F	12810	\$X25CC	EQU	Z'000F'	CALL ACCEPTED
000632	0013	12820	\$X25OI	EQU	Z'0013'	CLEAR INDICATION
000633	0017	12830	\$X25OC	EQU	Z'0017'	CLEAR CONFIRMATION
000634	0023	12840	\$X25II	EQU	Z'0023'	INTERRUPT INDICATION
000635	0027	12850	\$X25IC	EQU	Z'0027'	INTERRUPT CONFIRMATION
000636	00FB	12860	\$X25RI	EQU	Z'00FB'	RESTART INDICATION
000637	00FF	12870	\$X25RC	EQU	Z'00FF'	RESTART CONFIRMATION
000638		12880	*			
000639	0001	12890	\$X25RR	EQU	Z'0001'	RECEIVE READY
000640	0005	12900	\$X25NR	EQU	Z'0005'	RECEIVE NOT READY
000641		12910	*			
000642	0010	12920	\$X25MB	EQU	Z'0010'	MORE DATA QUALIFIER
000643		12930	*			
000644		12940	*			
000645	0005	12950	HDRLEN	EQU	5	ADR,CMD,GID,LCN,CMD IN TEXT
000646		12960	*			
000647	0080	12970	NETMPL	EQU	128	NETWORK MAP LENGTH
000648		12980	*			
000649	0800	12990	X25TIP	EQU	Z'0800'	TIPID CONVERTS TO 'A@'
000650		13000	*			
000651		13010	*			
000652		13020	*DEVICE MESSAGE CONSTANTS			
000653		13030	*			
000654	0001	13040	XINNSB	EQU	1	INPUT FRAMING ERROR DETECTED
000655	0002	13050	XINESC	EQU	2	WE ESCAPED USERS INPUT
000656	0003	13060	XINDEL	EQU	3	USER DELETED INPUT

000657		13070	/EJECT			
000658		13080	*			
000659		13090	*DATA QUALIFIERS			
000660		13100	*			
000661	0000	13110	Q\$PRMS	EQU	Z'0000'	PARAMETERS
000662	0001	13120	Q\$IDSC	EQU	Z'0001'	INVITATION TO CLEAR
000663	0002	13130	Q\$STPM	EQU	Z'0002'	SET PARAMETERS
000664	0003	13140	Q\$IBRK	EQU	Z'0003'	INDICATION OF BREAK
000665	0004	13150	Q\$RDPM	EQU	Z'0004'	READ PARAMETERS
000666	0005	13160	Q\$FLAW	EQU	Z'0005'	ERROR IN PROCESS
000667	0006	13170	Q\$SRPM	EQU	Z'0006'	SET AND READ PARAMETERS
000668		13180	*			
000669	0007	13190	Q\$CMAX	EQU	Z'0007'	FIRST INVALID PARAMETER
000670		13200	*			
000671		13210	*			
000672		13220	*PARAMETER VALUES			
000673		13230	*			
000674	0000	13240	P\$MARK	EQU	Z'0000'	NATIONAL MARKER
000675	0004	13250	P\$TIMR	EQU	Z'0004'	INTERVAL TIMER
000676	0007	13260	P\$SBRK	EQU	Z'0007'	SET BREAK
000677	0008	13270	P\$DSOT	EQU	Z'0008'	DISCARD OUTPUT
000678	000A	13280	P\$LFLD	EQU	Z'000A'	SET LINE FOLDING
000679	000B	13290	P\$RSPD	EQU	Z'000B'	READ SPEED
000680		13300	*			
000681		13310	*PARAMETER COMMAND PAIRS			
000682		13320	*			
000683	000B	13330	PM\$RSP	EQU	Z'0000'+P\$RSPD	READ SPEED
000684	1507	13340	PM\$BRK	EQU	Z'1500'+P\$SBRK	SET BREAK TO STANDARD
000685	0008	13350	PM\$ENO	EQU	Z'0000'+P\$DSOT	SET DISCARD OUTPUT FALSE
000686	0108	13360	PM\$DSO	EQU	Z'0100'+P\$DSOT	SET DISCARD OUTPUT TRUE

000687				13370	/EJECT			
000688				13380	*			
000689				13390	* X25 STYLE NETWORK IS GOING OFFLINE			
000690				13400	*			
000691	0000	FCC4	000F	13410	XNTOFL	LDB	B7,B4+HOSTNT	USE NETWORK DEVICE BLOCK
000692	0002	8DD7		13420		CMN	=B7	
000693	0003	0900		13430		BE	.2	NEVER DEVELOPED...MUST BE SIGN OFF CALL
000694	0004	8747	0008	13440		CL	B7+DEVFGS	FORCE OFFLINE
000695	0006	8747	0011	13450		CL	B7+PFLAGS	
000696	0008	EB80	0053	13460		LAB	B6,XNETOF	CLEAR ALL USERS FROM NETWORK
000697	000A	5C30		13470		LDV	R5,NETLEV	
000698	000B	82C4	0008	13480		LB	B4+DEVFGS,SONOFF	ARE WE REMAINING UP?
	000D	8030						
000699	000E	0580		13490		BBF	.1	NO -- DO THINGS DIFFERENTLY
000700	000F	B380	0000	13500		LNJ	B3,BLDTSK	BUILD TASK
000701	0011	0F80		13510		B	.3	
000702				13520	*			
000703	0012	EB80	0033	13530	.1	LAB	B6,XNTOFF	SEND COMPLETELY OFF
000704	0014	B380	0000	13540		LNJ	B3,BLDTSK	
000705	0016	8744	000F	13550		CL	B4+HOSTNT	NO LONGER A NETWORK CONNECTED
000706				13560	*			
000707	0018	9CD7		13570		LDB	B1,=B7	REMOVE PACKET NETWORK
000708	0019	AB80	0900	13580		LAB	B2,NETQ	FROM NETWORK QUEUE
000709	001B	0060		13590		DQA		
000710	001C	0680	08FC	13600		BCF	NETERR	HANDLE FUNNY MACHINE
000711	001E	0930	08FC	13610		BNE	NETERR	HANDLE FUNNY SOFTWARE
000712				13620	*			
000713	0020	E804		13630	.2	LDR	R6,B4	PRINT CHANNEL MESSAGE
000714	0021	FC04		13640		LDB	B7,=B4	
000715	0022	D380	0000	13650		LNJ	B5,MGCHNL	
000716	0024	002A		13660		DC	<NTDSMG	SEND NETWORK DISCONNECT MESSAGE
000717	0025	0012		13670		DC	NTDSML*2	
000718	0026	0000		13680		DC	Z'0000'	SEND MESSAGE AS IS
000719	0027	CC07		13690		LDB	B4,=B7	RESTORE DEVICE BLOCK
000720				13700	*			
000721	0028	8380	0000	13710	.3	JMP	TSKRTN	USE NORMAL RETURN
000722				13720	*			
000723	002A	4E45		13730	NTDSMG	DC	'NETWORK DISCONNECT'	
	002B	5457						
	002C	4F52						
	002D	4B20						
	002E	4449						
	002F	5343						
	0030	4F4E						
	0031	4E45						
	0032	4354						
000724	0009			13740	NTDSML	EQU	\$-NTDSMG	

000725					13750	/EJECT			
000726					13760	*			
000727					13770	*	LINK OF X25 STYLE NETWORK HAS BEEN RESET		
000728					13780	*			
000729	0033	CCD7			13790	XNTOFF	LDB	B4,=B7	ADJUST REGISTERS
000730	0034	8DC4	000E		13800		CMN	B4+NETMAP	IF MAP NEVER ASSIGNED THEN EXIT
000731	0036	0900		T	13810		BE	.1	RELEASE NETWORK STORAGE
000732					13820	*			
000733	0037	B380	005A		13830		LNJ	B3,CLRNET	CLEAR NETWORK USERS
000734					13840	*			
000735	0039	9CC4	000E		13850		LDB	B1,B4+NETMAP	RELEASE NETWORK MAP
000736	003B	ABC1	0086		13860		LAB	B2,B1+NETMPL+7-1	
000737	003D	B380	0000	X	13870		LNJ	B3,RELMEM	
000738					13880	*			
000739	003F	B380	0000	X	13890		LNJ	B3,CINMGX	CLEAR PENDING INPUT MESSAGES
000740	0041	4CFF			13900		LDV	R4,-1	
000741	0042	D380	0000	X	13910		LNJ	B5,CLOUTQ	CLEAR PENDING OUTPUT MESSAGES
000742					13920	*			
000743	0044	9CC4	0018		13930		LDB	B1,B4+IMSGFB	RETURN INPUT MESSAGE QUEUE
000744	0046	E380	0000	X	13940		LNJ	B6,FRBLKS	
000745	0048	9CC4	0025		13950		LDB	B1,B4+OMSGFB	RETURN OUTPUT MESSAGE QUEUE
000746	004A	E380	0000	X	13960		LNJ	B6,FRBLKS	
000747					13970	*			
000748	004C	9CD4			13980	.1	LDB	B1,=B4	RELEASE NETWORK DEVICE BLOCK
000749	004D	ABC1	0046		13990		LAB	B2,B1+SMCPBL+7-1	
000750	004F	B380	0000	X	14000		LNJ	B3,RELMEM	
000751					14010	*			
000752	0051	8380	0000	X	14020	.2	JMP	SMCPXT	WAIT FOR SOMETHING INTERESTING TO HAPPEN
000753					14030	*			
000754					14040	*			
000755					14050	*	LINK OF X25 STYLE NETWORK HAS BEEN RESET		
000756					14060	*			
000757	0053	CCD7			14070	.XNETOF	LDB	B4,=B7	ADJUST REGISTERS
000758	0054	8DC4	000E		14080		CMN	B4+NETMAP	IF MAP NEVER ASSIGNED THEN EXIT
000759	0056	097B		T	14090		BE	.2	
000760	0057	B380	005A		14100		LNJ	B3,CLRNET	CLEAR NETWORK USERS
000761	0059	OFF8		T	14110		B	.2	THEN VAPORIZE

000762					14120	/EJECT			
000763					14130	*			
000764					14140	*ROUTINE TO CLEAR ALL NETWORK USERS			
000765					14150	*			
000766	005A	BFC4	000A		14160	CLRNET	STB	B3,B4+TSKRET	SAVE RETURN IN AVAILABLE SLOT
000767	005C	B380	022F		14170		LNJ	B3,RSTRNK	RESET RE-INIT CLOCK
000768					14180	*			
000769	005E	ABC4	0002		14190	.1	LAB	B2,B4+SOFTQ	SCAN FOR ACTIVE USERS
000770	0060	8755			14200		CL	R5	ANY WILL DO
000771	0061	0062			14210		DQH		FIND NEXT USER
000772	0062	0680	08FC		14220		BCF	NETERR	HANDLE FUNNY MACHINE
000773	0064	0200		T	14230		BL	.2	NONE LEFT -- INFORM OPERATIONS
000774					14240	*			
000775	0065	CCD1			14250		LDB	B4,=B1	COPY OVER
000776	0066	D380	0000	X	14260		LNJ	B5,DQRDSC	GIVE OFFLINE RETURN TO ALL PARTIES
000777	0068	D380	0000	X	14270		LNJ	B5,DEVKOT	KILL ANY AND ALL QUEUED OUTPUT
000778	006A	D380	0000	X	14280		LNJ	B5,DVKINP	KILL ANY REMAINING INPUT
000779					14290	*			
000780	006C	9CD4			14300		LDB	B1,=B4	FREE BLOCK
000781	006D	B380	0000	X	14310		LNJ	B3,FNETBK	
000782	006F	CFEF		T	14320		B	.1	LOOP UNTIL ALL USERS GO AWAY
000783					14330	*			
000784	0070	E870	0080		14340	.2	LDR	R6,=128	SCAN BACK THROUGH ALL USERS
000785	0072	EF44	0039		14350		STR	R6,B4+ADDRSS	
000786					14360	*			
000787	0074	88C4	0039		14370	.3	DEC	B4+ADDRSS	ONE LESS IN LOOP
000788	0076	A844	0039		14380		LDR	R2,B4+ADDRSS	
000789	0078	2800		T	14390		BLZ	R2,.4	IF LOOPED THEN EXIT
000790					14400	*			
000791	0079	ACC4	000E		14410		LDB	B2,B4+NETMAP	CREATE POINTER TO VIRTUAL CONNECTION
000792	007B	8DA2			14420		CMN	B2+R2	
000793	007C	0978		T	14430		BE	.3	NONE FOUND
000794	007D	9C80	08FB		14440		LDB	B1,ZERO	LOAD AND RESET CELL
000795	007F	9EA2			14450		SWB	B1,B2+R2	
000796	0080	9FC4	003F		14460		STB	B1,B4+NETUSR	
000797	0082	D380	07BC		14470		LNJ	B5,CLRUSR	FREE ANY USER STORAGE FOR THIS PORT
000798	0084	B380	0797		14480		LNJ	B3,KTOCLK	RESET TIMEOUT CLOCK
000799	0086	B380	079C		14490		LNJ	B3,KRRCLK	RESET RECEIVE RESPONSE CLOCK
000800	0088	9CC4	003F		14500		LDB	B1,B4+NETUSR	FREE NETWORK USER BLOCK
000801	008A	B380	0000	X	14510		LNJ	B3,RELBLK	
000802	008C	0FE8		T	14520		B	.3	LOOP FOR ANOTHER
000803					14530	*			
000804	008D	E804			14540	.4	LDR	R6,B4	PRINT CHANNEL MESSAGE
000805	008E	FC04			14550		LDB	B7,=B4	
000806	008F	D380	0000	X	14560		LNJ	B5,MGCHNL	
000807	0091	0097			14570		DC	<NTLDMG	SEND LINK RESET MESSAGE
000808	0092	000E			14580		DC	NTLDM*2	
000809	0093	0000			14590		DC	Z'0000'	SEND MESSAGE AS IS
000810	0094	CCD7			14600		LDB	B4,=B7	RESTORE DEVICE BLOCK
000811					14610	*			
000812	0095	83CC	000A		14620		JMP	(B4+TSKRET)	RETURN TO CALLER
000813					14630	*			

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000814	0097	5832	14640	NTLDMG	DC	'X25 LINK RESET'
	0098	3520				
	0099	4C49				
	009A	4E4B				
	009B	2052				
	009C	4553				
	009D	4554				
000815		0007	14650	NTLDML	EQU	\$-NTLDMG

000816					14660	/EJECT			
000817					14670	*			
000818					14680	* X25 SYTLE NETWORK HAS COME ONLINE			
000819					14690	*			
000820	009E	FCC4	000F		14700	XNTONL	LDB	B7,B4+HOSTNT	USE NETWORK DEVICE BLOCK
000821	00A0	8DD7			14710		CMN	=B7	
000822	00A1	0900		T	14720		BE	.1	NOT CREATED YET
000823	00A2	E844	0011		14730		LDR	R6,B4+PFLAGS	COPY INFO FROM DEVICE TO NETWORK
000824	00A4	8856			14740		LBF	R6,IDLEOT	CANNOT ACCEPT CALLBACK
	00A5	0400							
000825	00A6	EF47	0011		14750		STR	R6,B7+PFLAGS	
000826	00A8	8947	0008		14760		LBT	B7+DEVFGS,SONOFF+RSTRM	GO ONLINE IN RESTART MODE
	00AA	8400							
000827					14770	*			
000828	00A8	8747	0038		14780		CL	B7+LSTUSR	RESET SCAN POINTERS
000829	00A9	8747	0037		14790		CL	B7+SVCUSR	
000830					14800	*			
000831	00AF	E804			14810		LDR	R6,B4	PRINT CONNECTED MESSAGE
000832	00B0	FCD4			14820		LDB	B7,=B4	
000833	00B1	D380	0000	X	14830		LNJ	B5,MGCHNL	
000834	00B3	011B			14840		DC	<NTLUMG	SEND LINK UP MESSAGE
000835	00B4	000C			14850		DC	NTLUML*2	
000836	00B5	0000			14860		DC	Z'0000'	SEND MESSAGE AS IS
000837	00B6	CCD7			14870		LDB	B4,=B7	RESTORE DEVICE BLOCK
000838					14880	*			
000839	00B7	8380	0000	X	14890		JMP	TSKRTN	NORMAL RETURN TO INDICATE WE ARE UP
000840					14900	*			
000841	00B9	3C40			14910	.1	LDV	R3,SMCPBL	ALLOCATE NETWORK DEVICE BLOCK
000842	00BA	B380	0000	X	14920		LNJ	B3,GETMEM	
000843	00BC	8380	0000	X	14930		JMP	TSKRTE	EXCEPTION RETURN KNOCKS US OFFLINE
000844					14940	*			
000845	00BE	88D3			14950		DEC	R3	
000846	00BF	8733			14960	.2	CL	B3+R3	ZERO DEVICE BLOCK
000847	00C0	377F		T	14970		BDEC	R3,.2	
000848					14980	*			
000849	00C1	FCD3			14990		LDB	B7,=B3	ADJUST REGISTERS
000850	00C2	FFC4	000F		15000		STB	B7,B4+HOSTNT	POINT TO NETWORK FROM DEVICE
000851	00C4	FFC7	000F		15010		STB	B7,B7+HOSTNT	POINT BACK TO OURSELVES
000852	00C6	CFC7	0015		15020		STB	B4,B7+MOTHER	POINT TO DEVICE FROM NETWORK
000853	00C8	8C53			15030		STS	R3	
000854	00C9	B570	003F		15040		AND	R3,'003F'	ISOLATE LEVEL OF CALLER
000855	00CB	BF47	0009		15050		STR	R3,B7+TSKINF	
000856					15060	*			
000857	00CD	9CD7			15070		LDB	B1,=B7	ADD NETWORK TO QUEUE
000858	00CE	D804			15080		LDR	R5,B4	
000859	00CF	AB80	0900		15090		LAB	B2,NETQ	
000860	00D1	0063			15100		QOH		
000861	00D2	0680	08FC		15110		BCF	NETERR	HANDLE FUNNY MACHINE
000862					15120	*			
000863	00D4	B870	0080		15130		LDR	R3,=NETMPL	ALLOCATE NETWORK MAP
000864	00D6	B380	0000	X	15140		LNJ	B3,GETMEM	
000865	00D8	8380	0000	X	15150		JMP	TSKRTE	EXCEPTION RETURN KNOCKS US OFFLINE



000866			15160 *				
000867	00DA	88D3	15170	DEC	R3		
000868	00DE	8733	15180 .4	CL	B3+R3	ZERO MAP	
000869	00DC	377F	15190	BDEC	R3,.4		
000870			15200 *				
000871	00DD	BFC7 000E	15210	STB	B3,B7+NETMAP	SAVE MAP ADDRESS	
000872	0CDF	E380 0000	15220	LNJ	B6,GFWBLK	ALLOCATE INPUT MESSAGE QUEUE	
000873	00E1	9FC7 0018	15230	STB	B1,B7+IMSGFB	SAVE ADDRESS AND POINTER	
000874	00E3	9F47 0019	15240	STR	R1,B7+IMSGFP		
000875	00E5	9FC7 001A	15250	STB	B1,B7+IMSGLB		
000876	00E7	9F47 001B	15260	STR	R1,B7+IMSGLP		
000877	00E9	E380 0000	15270	LNJ	B6,GFWBLK	ALLOCATE OUTPUT MESSAGE QUEUE	
000878	00EB	9FC7 0025	15280	STB	B1,B7+OMSGFB	SAVE ADDRESS AND POINTER	
000879	00ED	9F47 0026	15290	STR	R1,B7+OMSGFP		
000880	00EF	9FC7 0029	15300	STB	B1,B7+OMSGLB		
000881	00F1	9F47 002A	15310	STR	R1,B7+OMSGLP		
000882			15320 *				
000883	00F3	ABC7 0002	15330	LAB	B2,B7+SOFTQ	INITIALIZE USER QUEUE	
000884	00F5	8702	15340	CL	B2		
000885	00F6	AFC2 0001	15350	STB	B2,B2+FPTR		
000886	00F8	AFC2 0002	15360	STB	B2,B2+LPTR		
000887	00FA	ABC7 0005	15370	LAB	B2,B7+OUTQ	INITIALIZE OUTPUT QUEUE	
000888	00FC	8702	15380	CL	B2		
000889	00FD	AFC2 0001	15390	STB	B2,B2+FPTR		
000890	00FF	AFC2 0002	15400	STB	B2,B2+LPTR		
000891	0101	ABC7 003C	15410	LAB	B2,B7+CONQ	INITIALIZE CONNECTION QUEUE	
000892	0103	8702	15420	CL	B2		
000893	0104	AFC2 0001	15430	STB	B2,B2+FPTR		
000894	0106	AFC2 0002	15440	STB	B2,B2+LPTR		
000895			15450 *				
000896	0108	E804	15460	LDR	R6,B4	PRINT NETWORK CONNECTED MESSAGE	
000897	0109	FC04	15470	LDB	B7,=B4		
000898	010A	D380 0000	15480	LNJ	B5,MGCHNL		
000899	010C	0112	15490	DC	<NTCNMG	SEND NETWORK CONNECTED MESSAGE	
000900	010D	0012	15500	DC	NTCNML*2		
000901	010E	0000	15510	DC	Z'0000'	SEND MESSAGE AS IS	
000902	010F	CCD7	15520	LDB	B4,=B7	RESTORE DEVICE BLOCK	
000903			15530 *				
000904	0110	8380 0000	15540	JMP	TSKRTN	NORMAL RETURN TO INDICATE WE ARE UP	
000905			15550 *				
000906	0112	4E45	15560 NTCNMG	DC	'NETWORK CONNECTED'		
	0113	5457					
	0114	4F52					
	0115	4B20					
	0116	434F					
	0117	4E4E					
	0118	4543					
	0119	5445					
	011A	4420					
000907		0009	15570 NTCNML	EQU	\$-NTCNMG		
000908			15580 *				
000909	011B	5832	15590 NTLUMG	DC	'X25 LINK UP'		

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011C 3520  
011D 4C49  
011E 4E4B  
011F 2055  
0120 5020

000910

0006

15600 NTLUML

EQU

\$-NTLUMG

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000911					15610 /EJECT			
000912					15620 *			
000913					15630 *CHECK IF WE HAVE ENOUGH MEMORY TO ACCEPT INPUT			
000914					15640 *			
000915	0121	E844	0010		15650 XNTINC	LDR	R6,B4+IBFMAX	BASE DECISION OF MAX BUFFERS
000916	0123	6003			15660	SOL	R6,3	
000917	0124	E900	0000	X	15670	CMR	R6,M\$CURB	CHECK AGAINST CURRENT MEMORY LEVEL
000918	0126	0300	0000	X	15680	BG	TSKRTN	NORMAL RETURN INDICATES INABILITY
000919	0128	8380	0000	X	15690	JMP	TSKRTE	EXCEPTION RETURN USED WHEN WE ARE ABLE

000920					15700	/EJECT			
000921					15710	*			
000922					15720	*	HANDLE RECEIPT OF PACKET LEVEL MESSAGES		
000923					15730	*			
000924	012A	FCC4	000F		15740	XNTINM	LDB	B7,B4+HOSTNT	FIRST QUEUE TASK TO PROCESS
000925	012C	EB80	015A		15750		LAB	B6,XNETIN	
000926	012E	5C30			15760		LDV	R5,NETLEV	
000927	012F	B380	0000	X	15770		LNJ	B3,BLDTSK	QUEUE TASK TO PROCESS INPUT MESSAGES
000928					15780	*			
000929	0131	9CC4	0018		15790	.1	LDB	B1,B4+IMSGFB	COPY MESSAGES FROM DEVICE TO NETWORK
000930	0133	9844	0019		15800		LDR	R1,B4+IMSGFP	
000931	0135	9DC4	001A		15810		CMB	B1,B4+IMSGLB	MIGHT WE BE AT END
000932	0137	0980		T	15820		BNE	.2	NO
000933	0133	9944	001B		15830		CMR	R1,B4+IMSGLP	
000934	013A	0900	0000	X	15840		BE	TSKRTE	EXCEPTION RETURN USED TO INDICATE AVAILABLE
000935					15850	*			
000936	013C	C811			15860	.2	LDR	R4,B1+R1	LOAD ADDRESS, POINTER, LENGTH
000937	013D	E380	0000	X	15870		LNJ	B6,GWORDF	
000938	013F	D811			15880		LDR	R5,B1+R1	
000939	0140	E380	0000	X	15890		LNJ	B6,GWORDF	
000940	0142	E380	0000	X	15900		LNJ	B6,GWORDF	
000941	0144	9FC4	0018		15910		STB	B1,B4+IMSGFB	SAVE UPDATED POINTERS
000942	0146	9F44	0019		15920		STR	R1,B4+IMSGFP	
000943					15930	*			
000944	0148	9CC7	001A		15940		LDB	B1,B7+IMSGLB	COPY ONTO END OF QUEUE
000945	014A	9847	001B		15950		LDR	R1,B7+IMSGLP	
000946	014C	CE56			15960		SWR	R4,R6	
000947	014D	E380	0000	X	15970		LNJ	B6,PWORDG	SAVE ADDRESS, POINTER, LENGTH
000948	014F	E855			15980		LDR	R6,R5	
000949	0150	E380	0000	X	15990		LNJ	B6,PWORDG	
000950	0152	E854			16000		LDR	R6,R4	
000951	0153	E380	0000	X	16010		LNJ	B6,PWORDG	
000952	0155	9FC7	001A		16020		STB	B1,B7+IMSGLB	SAVE UPDATED POINTERS
000953	0157	9F47	001B		16030		STR	R1,B7+IMSGLP	
000954	0159	0FD8		T	16040		B	.1	LOOP FOR NEXT QUEUED MESSAGE

000955					16050	/EJECT				
000956					16060	*				
000957					16070	*PROCESS X25 STYLE NETWORK PACKET LEVEL MESSAGES				
000958					16080	*				
000959					16090	*<B4>=NETWORK DEVICE BLOCK				
000960					16100	*				
000961	015A	CCD7			16110	XNETIN	LDB	B4,=B7		ADJUST REGISTERS
000962	015B	82C4	0008		16120		LB	B4+DEVFGS,SONOFF		WE MUST STILL BE ONLINE
	015D	8000								
000963	015E	0580	0000	X	16130		BBF	SMCPXT		IF NOT THEN JUST GO TO SLEEP
000964					16140	*				
000965	0160	9CC4	0018		16150	XNETIM	LDB	B1,B4+IMSGFB		SCAN QUEUE FOR ANOTHER MESSAGE
000966	0162	9844	0019		16160		LDR	R1,B4+IMSGFP		
000967	0164	9DC4	001A		16170		CMB	B1,B4+IMSGLB		ANY LEFT?
000968	0166	0980		T	16180		BNE	.1		YES
000969	0167	9944	001B		16190		CMR	R1,B4+IMSGLP		
000970	0169	0900	0560		16200		BE	XNETOM		ATTEMPT TO FILL OUTPUT REQUEST (IF ANY)
000971					16210	*				
000972	016B	E380	0000	X	16220	.1	LNJ	B6,GWORDF		GET ADDRESS OF MESSAGE
000973	016D	EF44	003B		16230		STR	R6,B4+MSGHDR		
000974	016F	E380	0000	X	16240		LNJ	B6,GWORDF		GET POINTER INTO BUFFER
000975	0171	6D02			16250		CMV	R6,2		MUST BE AT TOP OF BUFFER
000976	0172	0980	08FC		16260		BNE	NETERR		ELSE WE WONT WORK
000977	0174	E380	0000	X	16270		LNJ	B6,GWORDF		GET LENGTH OF MESSAGE
000978	0176	9FC4	0018		16280		STB	B1,B4+IMSGFB		UPDATE TO NEW POINTERS
000979	0178	9F44	0019		16290		STR	R1,B4+IMSGFP		
000980					16300	*				
000981	017A	9CC4	003B		16310		LDB	B1,B4+MSGHDR		WORK WITH MESSAGE BUFFER
000982	017C	9FC4	0034		16320		STB	B1,B4+MSGBUF		
000983	017E	EF44	0036		16330		STR	R6,B4+MSGLEN		SAVE LENGTH
000984	0180	4CFF			16340		LDV	R4,-1		PRESET COMMAND TO TRASH
000985	0181	6D04			16350		CMV	R6,HDRLN-1		DOES ADDRESS EXIST
000986	0182	0200	0219		16360		BL	NTIGNM		NOPE
000987	0184	0900		T	16370		BE	.11		YES -- NO COMMAND THOUGH
000988	0185	C2C1	0003		16380		LLH	R4,B1+3		
000989					16390	*				
000990	0187	CF44	003A		16400	.11	STR	R4,B4+COMAND		SAVE COMMAND
000991	0139	D841	0002		16410		LDR	R5,B1+2		
000992	013B	DF44	0039		16420		STR	R5,B4+ADDRSS		SAVE ADDRESS INVOLVED
000993	013D	82D5			16430		LB	R5,'6F80'		MUST BE OFF
	013E	6F80								
000994	018F	0500	0219		16440		BBT	NTIGNM		
000995	0191	82D5			16450		LB	R5,'1000'		MUST BE ON
	0192	1000								
000996	0193	0580	0219		16460		BBF	NTIGNM		
000997	0195	4B00		T	16470		BEVN	R4,.2		INSURE NON-DATA IS NOT QUALIFIED
000998	0196	5800	0219		16480		BLZ	R5,NTIGNM		
000999					16490	*				
001000	0198	1C07			16500	.2	LDV	R1,HDRLN+2		SAVE CURRENT POINTER
001001	0199	9F44	0035		16510		STR	R1,B4+MSGPTR		

001002					16520	/EJECT		
001003					16530	*		
001004					16540	*PRINT TRACE (IF APPLICABLE)		
001005					16550	*		
001006	019B	E804			16560	LDR	R6,B4	ARE WE MONITORING THE NETWORK
001007	019C	E900	0000	X	16570	CMR	R6,MONNET	
001008	019E	0900		T	16580	BE	.4	YES -- SEND MESSAGE
001009	019F	6C7F			16590	LDV	R6,'7F'	
001010	01A0	E544	0039		16600	AND	R6,B4+ADDRSS	ARE WE MONITORING CERTAIN NETWORK LINE
001011	01A2	E404			16610	OR	R6,B4	
001012	01A3	E900	0000	X	16620	CMR	R6,MONNET	
001013	01A5	0980		T	16630	BNE	.6	NOPE -- SKIP MONITORS
001014					16640	*		
001015	01A6	D380	0000	X	16650	.4	LNJ	B5,MGSTRT
001016					16660	*		START MONITOR MESSAGE
001017	01A8	E804			16670	LDR	R6,B4	PRINT NETWORK ADDRESS
001018	01A9	D380	0000	X	16680	LNJ	B5,MGHEX	
001019	01AB	D380	0000	X	16690	LNJ	B5,MGCHAR	
001020	01AD	002D			16700	DC	\$ASCDS	
001021					16710	*		
001022	01AE	E844	0039		16720	LDR	R6,B4+ADDRSS	PRINT SUPPLIED ADDRESS
001023	01B0	D380	0000	X	16730	LNJ	B5,MGHEX	
001024	01B2	D380	0000	X	16740	LNJ	B5,MGCHAR	SEPARATE DATUM
001025	01B4	522F			16750	DC	\$ASCR*Z'0100'+\$ASCFS	
001026					16760	*		
001027	01B5	E844	003A		16770	LDR	R6,B4+COMAND	SPIT COMMAND OUT
001028	01B7	D380	0000	X	16780	LNJ	B5,MGHEXH	
001029	01B9	D380	0000	X	16790	LNJ	B5,MGCHAR	SPACE ONCE
001030	01BB	0020			16800	DC	\$ASCSP	
001031					16810	*		
001032	01BC	E844	0036		16820	LDR	R6,B4+MSGLEN	TEST WHETHER DATA EXISTS
001033	01BE	6EFB			16830	ADV	R6,-HDRLEN	
001034	01BF	6900		T	16840	BEZ	R6,.5	NOPE -- SEND MESSAGE
001035	01C0	D380	0000	X	16850	LNJ	B5,MGHEX	
001036					16860	*		
001037	01C2	D380	0000	X	16870	.5	LNJ	B5,MGSEND
001038					16880	*		FORCE MESSAGE
001039	01C4	B844	003A		16890	.6	LDR	R3,B4+COMAND
001040	01C6	2C7F			16900	LDV	R2,'7F'	CHECK COMMAND
001041	01C7	A544	0039		16910	AND	R2,B4+ADDRSS	POINT TO ENTRY IN NETWORK MAP
001042	01C9	ACC4	000E		16920	LDB	B2,B4+NETMAP	
001043	01CB	2980		T	16930	BNEZ	R2,.7	ONLY CHECK RESTART IF LCI=0
001044	01CC	B970	00FB		16940	CMR	R3,=\$X25RI	CHECK AGAINST RESTART COMMAND
001045	01CE	0900	0208		16950	BE	DCERI	RESTART INDICATION
001046	01D0	E970	00FF		16960	CMR	R3,=\$X25RC	CHECK RESTART RESPONSE
001047	01D2	0900	01F7		16970	BE	DCERC	RESTART CONFIRMATION
001048					16980	*		
001049	01D4	82C4	0008		16990	LB	B4+DEVFGS,RSTRM	IN RESTART MODE?
	01D6	0400						
001050	01D7	0529			17000	BBT	\$CMDRLS	YES -- IGNORE MESSAGE
001051	01D8	8DA2			17010	CMN	B2+R2	ALREADY KILLING ONE?
001052	01D9	0980		T	17020	BNE	.61	YES -- DOIT AGAIN

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001053 01DA D380 07E5  
 001054  
 001055 01DC 8380 0244  
 001056  
 001057 01DE 82C4 0008  
 01E0 0400  
 001058 01E1 051F  
 001059  
 001060 01E2 8DA2  
 001061 01E3 0900 026F  
 001062 01E5 ACA2  
 001063 01E6 AFC4 003F  
 001064  
 001065 01E8 A802  
 001066 01E9 A570 E000  
 001067 01EB 2013  
 001068 01EC ABA0 01EF  
 001069 01EE 838A  
 001070  
 001071 01EF 08FC  
 001072 01F0 02D2  
 001073 01F1 02ED  
 001074 01F2 02F3  
 001075 01F3 0303  
 001076 01F4 0309  
 001077 01F5 0309  
 001078 01F6 08FC

17030  
 17040 \*  
 17050 .61  
 17060 \*  
 17070 .7  
 17080  
 17090 \*  
 17100  
 17110  
 17120  
 17130  
 17140 \*  
 17150  
 17160  
 17170  
 17180  
 17190  
 17200 \*  
 17210 X25STB  
 17220  
 17230  
 17240  
 17250  
 17260  
 17270  
 17280

LNJ B5,BLDMAP  
 JMP CLRERR  
 LB B4+DEVFGS,RSTRM  
 BBT \$CMDRLS  
 CMN B2+R2  
 BE DTERDY  
 LDB B2,B2+R2  
 STB B2,B4+NETUSR  
 LDR R2,B2  
 AND R2,=X\$MODE  
 SCL R2,3  
 LAB B2,X25STB+R2  
 JMP (B2)  
 DC <NETERR  
 DC <DTEWTG  
 DC <DCEWTG  
 DC <DTECLR  
 DC <DCECLR  
 DC <INFTRX  
 DC <INFTRX  
 DC <NETERR

ELSE START ONE  
 AND KILL IT  
 IN RESTART MODE?  
 YES -- IGNORE MESSAGE  
 ANYTHING DEFINED HERE?  
 NO -- WERE IN READY MODE  
 MOVE NETMAP BLOCK OVER  
 BRANCH BASED ON MAJOR STATE  
 CALL PROCESSOR  
 0 -- READY (TOTALLY OFF)  
 1 -- DTE WAITING (NEED CALL CONFIRMED)  
 2 -- DCE WAITING (RESPOND TO CALL RQST)  
 3 -- DTE CLEARING  
 4 -- DCE CLEARING  
 5 -- INFORMATION TRANSFER (DTE)  
 6 -- INFORMATION TRANSFER (DCE)  
 7 -- UNDEFINED

001079					17290	/EJECT			
001080					17300	*			
001081					17310	*DCE IS CONFIRMING NETWORK RESTART REQUEST			
001082					17320	*			
001083	01F7	82C4	0008		17330	DCERC	LB	B4+DEVFGS,RSTRTX	DID WE SEND RESTART?
	01F9	0100							
001084	01FA	0580		T	17340		BBF	.2	NO -- FORCE RE-RESTART
001085					17350	*			
001086	01FB	8844	0008		17360	.1	LBF	B4+DEVFGS,RSTRTM+RSTRTR+RSTRTX	CLEAR RESTART -- ENTER NORMAL MODE
	01FD	0700							
001087	01FE	B380	022F		17370		LNJ	B3,RSTRNK	RESET RE-INIT CLOCK
001088					17380	*			
001089	0200	CCC4	000F		17390	.CMDRLS	LDB	B4,B4+HOSTNT	RESTORE NETWORK CONTROL BLOCK
001090	0202	9CC4	003B		17400		LDB	B1,B4+MSGHDR	RELEASE MESSAGE AND CONTINUE
001091	0204	E380	0000	X	17410		LNJ	B6,FRBLKS	
001092	0206	8380	0160		17420		JMP	XNETIM	PARSE NEXT MESSAGE
001093					17430	*			
001094					17440	*			
001095					17450	*DCE WANTS TO HAVE NETWORK START FRESH			
001096					17460	*			
001097	0208	8944	0008		17470	.DCERI	LBT	B4+DEVFGS,RSTRTR	NOTE THAT RESTART RECEIVED
	020A	0200							
001098	020B	0575			17480		BBT	\$CMDRLS	ALREADY DOING ONE
001099	020C	82C4	0008		17490		LB	B4+DEVFGS,RSTRTX	HAVE WE TRANSMITTED RESTART?
	020E	0100							
001100	020F	056C		T	17500		BBT	.1	YES -- TREAT COLLISION AS CONFIRMATION
001101					17510	*			
001102					17520	*			
001103					17530	*CONDITIONS HAVE CAUSED US TO ENTER RESTART OF NETWORK			
001104					17540	*			
001105	0210	8944	0008		17550	.2	LBT	B4+DEVFGS,RSTRTM	FLAG THAT RESTART MUST BE SENT
	0212	0400							
001106	0213	F380	04DF		17560		LNJ	B7,PNTERM	PRINT NETWORK ERROR MESSAGE
001107	0215	4E52			17570		DC	'NR'	CODE TO DISTINGUISH
001108	0216	B380	005A		17580		LNJ	B3,CLRNET	CLEAR ALL USERS FROM NETWORK
001109	0218	0FE8			17590		B	\$CMDRLS	RELEASE COMMAND AND CONTINUE
001110					17600	*			
001111					17610	*			
001112					17620	*MESSAGE RECEIVED HAD FLAWED LENGTH OR GFI/LCI			
001113					17630	*			
001114	0219	F380	04DF		17640	NTIGNM	LNJ	B7,PNTERM	PRINT NETWORK ERROR MESSAGE
001115	021B	4947			17650		DC	'IG'	CODE TO DISTINGUISH
001116	021C	0FE4			17660		B	\$CMDRLS	RELEASE COMMAND AND CONTINUE



001117					17670	/EJECT			
001118					17680	*			
001119					17690	*CLOCK TO RESEND RESTART REQUEST HAS POPPED			
001120					17700	*			
001121	021D	CCD7			17710	REINIT	LDB	B4,=B7	ADJUST REGISTERS
001122	021E	8744	000C		17720		CL	B4+RNTCLK	RESET CLOCK CELL
001123	0220	82C4	0008		17730		LB	B4+DEVFGS,SONOFF	HAS NETWORK BEEN RESET?
	0222	8000							
001124	0223	0580	0000	X	17740		BBF	SMCPXT	YES -- IGNORE WAKEUP CALL
001125	0225	8844	0008		17750		LBF	B4+DEVFGS,RSTRTX	RESEND RESTART REQUEST
	0227	0100							
001126	0228	82C4	0008		17760		LB	B4+DEVFGS,RSTRTM	MUST BE IN RESTART MODE
	022A	0400							
001127	022B	0580	08FC		17770		BBF	NETERR	ELSE WEVE GOT MAJOR PROBLEMS
001128	022D	8380	0560		17780		JMP	XNETOM	ATTEMPT TO FILL OUTPUT REQUEST (IF ANY)
001129					17790	*			
001130					17800	*			
001131					17810	*RESET RE-INIT CLOCK			
001132					17820	*			
001133	022F	9C80	08FB		17830	RSTRNK	LDB	B1,ZERO	KILL REINIT CLOCK
001134	0231	9EC4	000C		17840		SWB	B1,B4+RNTCLK	
001135	0233	EB30	021D		17850		LAB	B6,REINIT	
001136	0235	FC04			17860		LDB	B7,=B4	
001137	0236	8380	0000	X	17870		JMP	KILCLK	KILL CLOCK IF IT IS RUNNING

001138					17880	/EJECT			
001139					17890	*			
001140					17900	*FORCE VIRTUAL INTO CLEARING CONDITION			
001141					17910	*			
001142	0238	874C	003F		17920	CLRDCE	CL	(B4+NETUSR)	RESET USER STATE
001143	023A	894C	003F		17930		LBT	(B4+NETUSR),X\$CCLR+RSPOND	SET DCE CLEARING MODE
	023C	9000							
001144	023D	0F80		T	17940		B	.1	JOIN USER CLEARING CODE
001145					17950	*			
001146	023E	D380	07AA		17960	.WTGCLK	LNJ	B5,PTOCLK	POP TIMEOUT CLOCK
001147	0240	8944	0008		17970		LBT	B4+DEVFGS,CLKPRC	PROCESSING FOR CLOCKS (NOT INPUT)
	0242	0010							
001148	0243	0F84			17980		B	\$CLRDTE	JOIN COMMON CLEAR ROUTINE
001149					17990	*			
001150	0244	F380	04DF		18000	.CLRERR	LNJ	B7,PNTERM	PRINT NETWORK ERROR MESSAGE
001151	0246	4C43			18010		DC	'LC'	CODE TO DISTINGUISH
001152					18020	*			
001153	0247	874C	003F		18030	.CLRDTE	CL	(B4+NETUSR)	RESET USER STATE
001154	0249	894C	003F		18040		LBT	(B4+NETUSR),X\$TCLR+RSPOND	SET DTE CLEARING MODE
	024B	7000							
001155					18050	*			
001156	024C	B380	0797		18060	.1	LNJ	B3,KTOCLK	RESET TIMEOUT CLOCK
001157	024E	B380	079C		18070		LNJ	B3,KRRCLK	RESET RECEIVE RESPONSE CLOCK
001158	0250	ACC4	003F		18080		LDB	B2,B4+NETUSR	RESET NETWORK FLAGS
001159	0252	8742	0001		18090		CL	B2+NETFGS	
001160	0254	D380	07BC		18100		LNJ	B5,CLRUSR	FREE INFORMATION FOR USER
001161					18110	*			
001162	0256	D380	0000	X	18120		LNJ	B5,NETCHK	FIND USER IF CONNECTED
001163	0258	0268			18130		DC	<CLRXT	NOT FOUND -- RELEASE COMMAND
001164	0259	0060			18140		DQA		PULL CURRENT USER OFF NETWORK USER QUEUE
001165	025A	0680	08FC		18150		BCF	NETERR	HANDLE FUNNY MACHINE
001166	025C	0980	08FC		18160		BNE	NETERR	BUT YOU SAID!
001167					18170	*			
001168	025E	CCD1			18180		LDB	B4,=B1	WORK WITH NETWORK USER DEVICE BLOCK
001169	025F	D380	0000	X	18190		LNJ	B5,DQRDSC	GIVE OFFLINE RETURN TO ALL PARTIES
001170	0261	D380	0000	X	18200		LNJ	B5,DEVKOT	KILL ANY AND ALL QUEUED OUTPUT
001171	0263	D380	0000	X	18210		LNJ	B5,DVKINP	KILL ANY REMAINING INPUT
001172					18220	*			
001173	G265	9CD4			18230		LDB	B1,=B4	RELEASE BLOCK IF APPROPRIATE
001174	G266	B380	0000	X	18240		LNJ	B3,FNETBK	FREE NETWORK USER BLOCK
001175					18250	*			
001176	0268	8844	0008		18260	CLRXT	LBF	B4+DEVFGS,CLKPRC	DID A CLOCK DO THIS TO US
	026A	0010							
001177	026B	0580	0200		18270		BBF	CMDRLS	NOPE -- A COMMAND
001178	026D	8380	0560		18280		JMP	XNETOM	ATTEMPT TO FILL OUTPUT REQUEST (IF ANY)

001179					18290	/EJECT			
001180					18300	*			
001181					18310	*PACKET RECEIVED WHILE TOTALLY IDLED			
001182					18320	*			
001183	026F	D380	07E5		18330	DTERDY	LNJ	B5,BLDMAP	BUILD MAP BLOCK
001184	0271	B970	0013		18340		CMR	R3,=\$X250I	DISCONNECT?
001185	0273	0900	0238		18350		BE	CLRDCE	YES -- DO IT
001186	0275	B970	000B		18360		CMR	R3,=\$X25CI	INCOMING CALL?
001187	0277	0980	0244		18370		BNE	CLRERR	NOPE -- ENTER DTE CLEARING STATE
001188					18380	*			
001189	0279	F844	0036		18390		LDR	R7,B4+MSGLEN	INSURE LENGTH IS VALID
001190	027B	7EFB			18400		ADV	R7,-HDRLEN	
001191	027C	7D06			18410		CMV	R7,CRQMGL	INSURE MINIMUM LENGTH
001192	027D	0200	0244		18420		BL	CLRERR	NOT GOOD ENOUGH
001193					18430	*			
001194	027F	9C80	08FB		18440		LDB	B1,ZERO	SAVE CONNECT ASIDE (DONT RELEASE)
001195	0281	9EC4	003B		18450		SWB	B1,B4+MSGHDR	
001196	0283	9844	0035		18460		LDR	R1,B4+MSGPTR	
001197	0285	ABC4	003C		18470		LAB	B2,B4+CONQ	PLACE MESSAGE ONTO CONNECT QUEUE
001198	0287	D380	0803		18480		LNJ	B5,ADMSGQ	
001199					18490	*			
001200	0289	1C07			18500		LDV	R1,2+HDRLEN	POINT TO CONFIGURATION
001201	028A	E291			18510		LLH	R6,B1+R1	
001202	028B	6900		T	18520		BEZ	R6,.4	NO CONFIGURATION
001203	028C	70C4			18530		DOR	R7,4	SEPERATE CALLING/CALLED LENGTHS
001204	028D	704C			18540		SOR	R7,16-4	
001205	028E	6D0C			18550		CMV	R6,12	MUST BE 12 OR 14 DIGITS
001206	028F	0900		T	18560		BE	.1	
001207	0290	6D0E			18570		CMV	R6,14	
001208	0291	0980	0244		18580		BNE	CLRERR	
001209					18590	*			
001210	0293	7D0C			18600	.1	CMV	R7,12	MUST BE 12 OR 14 DIGITS
001211	0294	0900		T	18610		BE	.2	
001212	0295	7D0E			18620		CMV	R7,14	
001213	0296	0980	0244		18630		BNE	CLRERR	
001214					18640	*			
001215	0298	D856			18650	.2	LDR	R5,R6	COMPUTE LENGTH WITH MESSAGES
001216	0299	DA57			18660		ADD	R5,R7	
001217	029A	5041			18670		SOR	R5,1	
001218	029B	5E0B			18680		ADV	R5,HDRLEN+CRQMGL	ADD HEADER AND REQUIRED FRAMING
001219	029C	D944	0036		18690		CMR	R5,B4+MSGLEN	INSURE THERES PLENTY OF MESSAGE THERE
001220	029E	0300	0244		18700		BG	CLRERR	NOT ENOUGH ROOM
001221					18710	*			
001222	02A0	7041			18720		SOR	R7,1	DETERMINE BYTE WHERE CALLING AREA CODE RESIDES
001223	02A1	7E08			18730		ADV	R7,HDRLEN+1+2	SKIP HEADER..LENGTH..CALLED..DNIC OF CALLING
001224	02A2	9857			18740		LDR	R1,R7	
001225	02A3	E380	0000	X	18750		LNJ	B6,SETBPT	SET POINTER TO PROPER BYTE
001226	02A5	E380	0000	X	18760		LNJ	B6,GBYTEB	LOAD THEN SKIP
001227	02A7	F856			18770		LDR	R7,R6	
001228	02A8	E380	0000	X	18780		LNJ	B6,GBYTEB	
001229	02AA	6044			18790		SOR	R6,4	SHIFT LAST BCDIGIT OF AREA CODE
001230	02AB	7B00		T	18800		BEVN	R7,.3	COPY EVEN/ODD BIT OF MIDDLE BCDIGIT OF AREA COD

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001231	02AC	8956		18810	LBT	R6,'0010'	
	02AD	0010					
001232				18820	*		
001233	02AE	7EE0		18830	.3	ADV R7,(-2*16)	ADJUST FIRST BCDIGIT OF AREA CODE
001234	02AF	F570	0070	18840		AND R7,'0070'	
001235	02B1	7001		18850		SOL R7,1	
001236	02B2	E457		18860		OR R6,R7	
001237				18870	*		
001238	02B3	BCC4	003F	18880	.4	LDB B3,B4+NETUSR	SAVE RESULT IN MAP BLOCK
001239	02B5	EF43	0006	18890		STR R6,B3+NTINFO	SAVE AREA CODE RESULT
001240				18900	*		
001241	02B7	D380	0000	18910		LNJ B5,NETCON	GENERATE NETWORK DEVICE BLOCK
001242	02B9	8380	0247	18920		JMP CLRDE	IF NO MEMORY THEN REJECT
001243				18930	*		
001244	02BH	CCC4	000F	18940		LDB B4,B4+HOSTNT	RESTORE NETWORK BLOCK
001245	02BD	D870	8000	18950		LDR R5,'8000'	STACK REQUEST FOR SPEED MESSAGE
001246	02BF	D380	0815	18960		LNJ B5,BLDMSG	
001247	02C1	6C04		18970		LDV R6,Q\$RDPM	READ PARAMETER
001248	02C2	E7DD		18980		STH R6,POP B1+R1	
001249	02C3	E870	000B	18990		LDR R6,=PM\$RSP	WE WANT SPEED
001250	02C5	E7DD		19000		STH R6,POP B1+R1	
001251	02C6	6048		19010		SOR R6,8	
001252	02C7	E7DD		19020		STH R6,POP B1+R1	
001253				19030	*		
001254	02C8	7E03		19040		ADV R7,3	INCREASE LENGTH
001255	02C9	ABC4	0005	19050		LAB B2,B4+OUTQ	
001256	02CB	D380	0803	19060		LNJ B5,ADMSGQ	ADD THIS MESSAGE TO OUTPUT QUEUE
001257				19070	*		
001258	02CD	894C	003F	19080		LBT (B4+NETUSR),X\$CWTG+RSPOND	SEND CALL ACCEPTED
	02CF	5000					
001259	02DD	8380	0160	19090		JMP XNETIM	PARSE NEXT MESSAGE

001260					19100	/EJECT			
001261					19110	*			
001262					19120	*PACKET RECEIVED WHILE RESTING IN WAITING STATE			
001263					19130	*			
001264	02D2	B970	000F		19140	DTEWTG	CMR	R3,=\$X25CC	CALL CONFIRMATION?
001265	02D4	0900		T	19150		BE	.1	YES -- WRAP WAITING STATE UP
001266	02D5	B970	000B		19160		CMR	R3,=\$X25CI	CALL COLLISION?
001267	02D7	0996			19170		BNE	\$DCEWTG	NOPE -- FORCE OFF
001268	02D8	874C	003F		19180		CL	(B4+NETUSR)	ENTER DCE WAITING STATE
001269	02DA	894C	003F		19190		LBT	(B4+NETUSR),X\$CCLR	WITHOUT SENDING RESPONSE
	02DC	8000							
001270	02DD	0F80		T	19200		B	.2	
001271					19210	*			
001272	02DE	B380	0797		19220	.1	LNJ	B3,KTOCLK	WE CONNECTED WITHIN TIME LIMIT
001273	02E0	874C	003F		19230		CL	(B4+NETUSR)	ENTER INFORMATION TRANSFER STATE
001274	02E2	894C	003F		19240		LBT	(B4+NETUSR),X\$ICTX+OUROWN	
	02E4	C800							
001275	02E5	D380	0000	X	19250		LNJ	B5,NETCHK	INDICATE CONNECTION WITH BREAK
001276	02E7	08FC			19260		DC	<NETERR	MUST BE PRESENT
001277	02E8	CCD1			19270		LDB	B4,=B1	
001278	02E9	D380	0000	X	19280		LNJ	B5,DQRBRK	GIVE BREAK TO ALL PARTIES
001279					19290	*			
001280	02EB	8380	0200		19300	.2	JMP	CMDRLS	IGNORE COMMAND
001281					19310	*			
001282					19320	*			
001283					19330	*PACKET RECEIVED BEFORE WE RESPONDED WITH CALL ACCEPTED			
001284					19340	*			
001285	02ED	B970	0013		19350	DCEWTG	CMR	R3,=\$X2501	FORGET NEW CALL
001286	02EF	0900	0238		19360		BE	CLRDCE	ENTER DCE CLEARING
001287	02F1	8380	0244		19370		JMP	CLRERR	ENTER DTE CLEARING STATE

001288					19380 /EJECT				
001289					19390 *				
001290					19400 *DTE ISSUED CLEAR (CONFIRM OR COLLISION ALLOWED)				
001291					19410 *				
001292	02F3	B970	0017		19420 DTECLR	CMR	R3,=\$X250C		CLEAR CONFIRMATION?
001293	02F5	0900		T	19430	BE	.1		YES -- CLEAR CONNECTION
001294	02F6	B970	0013		19440	CMR	R3,=\$X250I		CLEAR COLLISION?
001295	02F8	0980		T	19450	BNE	.2		NOPE -- IGNORE
001296	02F9	82CC	003F		19460	LB	(B4+NETUSR),RSPOND		DID WE EVER GET CLEAR SENT?
	02FB	1000							
001297	02FC	0500		T	19470	BBT	.3		NO -- ENTER DCE CLEARING STATE
001298					19480 *				
001299	02FD	B380	0797		19490 .1	LNJ	B3,KTOCLK		KILL TIMEOUT CLOCK
001300	02FF	B380	07F9		19500	LNJ	B3,RLSMAP		FORCE INTO READY STATE
001301					19510 *				
001302	0301	8380	0200		19520 .2	JMP	CMDRLS		ELSE IGNORE WHATEVER COMMAND IT WAS
001303					19530 *				
001304					19540 *				
001305					19550 *DCE ISSUED CLEAR (RETRY ALLOWED IF SLOW TO RESPOND)				
001306					19560 *				
001307	0303	B970	0013		19570 .DCECLR	CMR	R3,=\$X250I		RETRY OF DISCONNECT?
001308	0305	0980	0244		19580	BNE	CLRERR		NOPE -- START OUR OWN DISCONNECT
001309					19590 *				
001310	0307	8380	0238		19600 .3	JMP	CLRDC		ENTER DCE CLEARING STATE

001311				19610	/EJECT			
001312				19620	*			
001313				19630	*PACKET RECEIVED DURING INFORMATION TRANSFER STATE			
001314				19640	*			
001315	0309	3800	037B	19650	INFTRX	BEVN	R3,IXDATA	IF DATA THEN ACT LIKE DTE WOULD
001316	030B	DB80	031F	19660		LAB	B5,UCMDTB	ASSUME UN-NUMBERED
001317	030D	6C0A		19670		LDV	R6,UCMTBL	
001318	030E	82D3		19680		LB	R3,'0002'	SUPERVISORY COMMAND?
	030F	0002						
001319	0310	0500		19690		BBT	.1	NO
001320	0311	DB80	031C	19700		LAB	B5,SCMDTB	CHANGE TO SUPERVISORY TABLE
001321	0313	6C03		19710		LDV	R6,SCMTBL	
001322	0314	8853		19720		LBF	R3,'00E0'	RESET PACKET COUNT
	0315	00E0						
001323				19730	*			
001324	0316	3042		19740	.1	SOR	R3,2	BRANCH ON -S- AND -U- COMMANDS
001325	0317	B956		19750		CMR	R3,R6	
001326	0313	0280	0244	19760		BGE	CLRERR	NOT VALID -- RESTART
001327	031A	DB85		19770		LAB	B5,B5+R3	INVOKE COMMAND PROCESSOR
001328	031B	838D		19780		JMP	(B5)	
001329				19790	*			
001330				19800	*			
001331				19810	*SUPERVISORY COMMANDS (FLOW CONTROL)			
001332				19820	*			
001333	031C	036E		19830	SCMDTB	DC	<ITXRR	RECEIVE READY
001334	031D	0374		19840		DC	<ITXRNR	RECEIVE NOT READY
001335	031E	0244		19850		DC	<CLRERR	REJECT (NOT SUPPORTED) ENTER DTE CLEARING
001336				19860	*			
001337		0003		19870	SCMTBL	EQU	\$-SCMDTB	LENGTH OF TABLE
001338				19880	*			
001339				19890	*			
001340				19900	*UN-NUMBERED COMMANDS (VIRTUAL CONNECTION CONTROL)			
001341				19910	*			
001342	031F	0244		19920	UCMDTB	DC	<CLRERR	..UNDEFINED
001343	0320	0244		19930		DC	<CLRERR	..UNDEFINED
001344	0321	0244		19940		DC	<CLRERR	CALL INDICATION (INVALID)
001345	0322	0244		19950		DC	<CLRERR	CALL CONFIRMED (INVALID)
001346	0323	0238		19960		DC	<CLRDC	CLEAR INDICATION (ENTER DCE CLEARING)
001347	0324	0244		19970		DC	<CLRERR	CLEAR CONFIRMATION (INVALID)
001348	0325	0244		19980		DC	<CLRERR	RESET INDICATION (NOT SUPPORTED)
001349	0326	0244		19990		DC	<CLRERR	RESET CONFIRMATION (NOT SUPPORTED)
001350	0327	04A1		20000		DC	<ITXII	INTERRUPT INDICATION
001351	0328	04D0		20010		DC	<ITXIC	INTERRUPT CONFIRMATION
001352				20020	*			
001353		000A		20030	UCMTBL	EQU	\$-UCMDTB	LENGTH OF TABLE

001354				20040	/EJECT			
001355				20050	*			
001356				20060	*CHECK RECEIVED PACKET SEQUENCE COUNT			
001357				20070	*			
001358	0329	D844	003A	20080	CKRPS	LDR	R5,B4+COMAND	RETRIEVE PACKET CONFIRM COUNT FROM COMMAND
001359	032B	5045		20090		SOR	R5,5	
001360	032C	E84C	003F	20100		LDR	R6,(B4+NETUSR)	GET USERS FLOW CONTROL BITS
001361	032E	C856		20110		LDR	R4,R6	SAVE ASIDE
001362	032F	8757		20120		CL	R7	
001363				20130	*			
001364	0330	E570	001F	20140	.1	AND	R6,'001F'	ISOLATE TO CURRENT AND HELD COUNTS
001365	0332	70C2		20150		DOR	R7,2	
001366	0333	E955		20160		CMR	R6,R5	COMPARE WITH CURRENT BUFFER
001367	0334	0900	T	20170		BE	.2	VERY GOOD
001368	0335	7900	0244	20180		BEZ	R7,CLRERR	CLEAR CONNECTION IF ERRORS
001369	0337	7082		20190		DOL	R7,2	
001370	0338	6E03		20200		ADV	R6,3	DECREASE HELD..INCREASE CURRENT
001371	0339	B380	0797	20210		LNJ	B3,KTOCLK	KILL TIMEOUT CLOCK (WINDOW ROTATED)
001372	033B	0FF5	T	20220		B	.1	
001373				20230	*			
001374	033C	7082		20240	.2	DOL	R7,2	PUT COUNT BACK INTO FLOW CONTROL BITS
001375	033D	E654		20250		XOR	R6,R4	
001376	033E	E570	001F	20260		AND	R6,'001F'	
001377	0340	E654		20270		XOR	R6,R4	
001378	0341	EF4C	003F	20280		STR	R6,(B4+NETUSR)	
001379				20290	*			
001380	0343	82D6		20300		LB	R6,DTEPSC	ANY LEFT UNACCOUNTED FOR?
	0344	0003						
001381	0345	0580	T	20310		BBF	.3	NO
001382	0346	E654		20320		XOR	R6,R4	WE LEFT CLOCK ALONE IF COUNTS SIMILAR
001383	0347	82D6		20330		LB	R6,DTEPSC	
	0348	0003						
001384	0349	05FC	T	20340		BBF	.3	
001385	034A	D870	5460	20350		LDR	R5,=ONESEC*180	WAIT A TOTAL OF THREE MINUTES
001386	034C	EB80	023E	20360		LAB	B6,WTGCLK	IF WINDOW DOESNT MOVE THEN CLEAR
001387	034E	8380	0786	20370		JMP	STOCLK	SET TIMEOUT CLOCK
001388				20380	*			
001389	0350	8335		20390	.3	JMP	B5	RETURN WITHOUT SETTING CLOCK



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001390			20400 /EJECT		
001391			20410 *		
001392			20420 *CHECK SENT PACKET SEQUENCE NUMBER		
001393			20430 *		
001394	0351	ACC4 003F	20440 CKSPS	LDB	B2,B4+NETUSR
001395	0353	E842 0001	20450	LDR	R6,B2+NETFGS
001396	0355	82D6	20460	LB	R6,DCEPSF
	0356	0007			
001397	0357	0580 0244	20470	BBF	CLRERR
001398	0359	6EFF	20480	ADV	R6,-DCEPSI
001399	035A	EF42 0001	20490	STR	R6,B2+NETFGS
001400			20500 *		
001401	035C	70C3	20510	DOR	R7,3
001402	035D	704D	20520	SOR	R7,16-3
001403	035E	8AD7	20530	INC	R7
001404	035F	E257	20540	SUB	R6,R7
001405	0360	70C3	20550	DOR	R7,3
001406	0361	704D	20560	SOR	R7,16-3
001407			20570 *		
001408	0362	E842 0001	20580	LDR	R6,B2+NETFGS
001409	0364	6046	20590	SOR	R6,6
001410	0365	EA57	20600	ADD	R6,R7
001411	0366	6001	20610	SOL	R6,1
001412	0367	E644 003A	20620	XOR	R6,B4+COMAND
001413	0369	82D6	20630	LB	R6,'000E'
	036A	000E			
001414	036B	0500 0244	20640	BBT	CLRERR
001415	036D	8385	20650	JMP	B5

CHECK PACKET COUNT

IF TOO MANY DCE MESSAGES THEN CLEAR

ELSE ENTER DTE CLEARING  
ONE LESS PACKET WE CAN ACCEPT

MOVE OLD COUNT AND NUMBER DOWN

ADJUST SINCE THIS PACKET ALREADY COUNTED  
COMPUTE PACKETS IN PROGRESS  
MOVE SEQUENCE OFFSET DOWN

COMPUTE FINAL PACKET NUMBER

POSITION FOR COMPARE

MUST MATCH EXACTLY

ELSE ENTER DTE CLEARING  
RETURN

001416					20660	/EJECT			
001417					20670	*			
001418					20680	*SUPERVISORY COMMAND PROCESSING			
001419					20690	*			
001420	036E	D380	0329		20700	ITXRR	LNJ	B5,CKRPS	CHECK PACKET ACKNOWLEDGEMENT
001421	0370	884C	003F		20710		LBF	(B4+NETUSR),DCERNR	DCE NO LONGER HUNG
	0372	0400							
001422	0373	0F80		T	20720		B	.1	RELEASE COMMAND
001423					20730	*			
001424	0374	D380	0329		20740	.ITXRNR	LNJ	B5,CKRPS	CHECK PACKET ACKNOWLEDGEMENT
001425	0376	894C	003F		20750		LBT	(B4+NETUSR),DCERNR	DCE CAN NO LONGER ACCEPT OUTPUT
	0378	0400							
001426					20760	*			
001427	0379	8380	0200		20770	.1	JMP	CMDRLS	RELEASE COMMAND
001428					20780	*			
001429					20790	*			
001430					20800	*PARSE DATA MESSAGE			
001431					20810	*			
001432	037B	D380	0329		20820	IXDATA	LNJ	B5,CKRPS	CHECK PACKET ACKNOWLEDGEMENT
001433	037D	ACC4	003F		20830		LDB	B2,B4+NETUSR	SEE IF CLOCK NEEDS SETTING
001434	037F	82C2	0001		20840		LB	B2+NETFGS,DTERNR+DTEHNG+DTECLK	CHECK PROHIBITORS
	0331	E000							
001435	0382	0500		T	20850		BBT	.1	
001436	0383	8942	0001		20860		LBT	B2+NETFGS,DTECLK	SET IF NOT PROHIBITED
	0385	2000							
001437	0386	EB80	03C4		20870		LAB	B6,RNRCLK	HANDLE RESPONSE CLOCK GOING OFF
001438	0388	D870	2A30		20880		LDR	R5,=ONESEC*90	MUST CONFIRM EVEN IF OUR INABILITY CONTINUES
001439	038A	D380	078B		20890		LNJ	B5,SRRCLK	SET RECEIVE RESPONSE CLOCK
001440					20900	*			
001441	038C	D380	0351		20910	.1	LNJ	B5,CKSPS	CHECK PACKET SEQUENCE
001442	038E	D380	0000	X	20920		LNJ	B5,NETCHK	LOAD USERS DEVICE BLOCK
001443	0390	0200			20930		DC	<CMDRLS	IGNORE DATA IF NO ESTABLISHED USER
001444	0391	89C4	0039		20940		CMZ	B4+ADDRSS	CHECK IF DATA QUALIFIER SET
001445	0393	0B00	03F3		20950		BSU	QLFMSG	HANDLE CONTROL INFORMATION
001446					20960	*			
001447	0395	82C1	0008		20970		LB	B1+DEVFGS,SONOFF	IF USER GOING AWAY THEN SO DOES DATA
	0397	8000							
001448	0398	0580	0200		20980		BBF	CMDRLS	
001449	039A	82C1	0008		20990		LB	B1+DEVFGS,DCRDTA	ARE WE DISCARDING DATA
	039C	0040							
001450	039D	0500	0200		21000		BBT	CMDRLS	YES -- DO SO
001451	039F	82CC	003F		21010		LB	(B4+NETUSR),OUROWN	IF OUR OWN CONNECTION THEN TREAT SPECIAL
	03A1	0800							
001452	03A2	0500	03CR		21020		BBT	DCEMSG	
001453	03A4	82CC	003F		21030		LB	(B4+NETUSR),DTEPSC	CANT TAKE INPUT IF PACKETS OUTSTANDING
	03A6	0003							
001454	03A7	0500	0200		21040		BBT	CMDRLS	SO JUST PITCH DATA
001455					21050	*			
001456	03A9	CCD1			21060		LDB	B4,=B1	UTILIZE USER BLOCK
001457	03AA	D380	0000	X	21070		LNJ	B5,DVFINP	NOTIFY THAT WE HAVE ENCOUNTERED FIRST INPUT
001458	03AC	03BF			21080		DC	<IXDTE3	NOBODY CARES
001459					21090	*			

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001460	03AD	9CC4	000F		21100	LDB	B1,B4+HOSTNT	RESTORE NETWORK BLOCK
001461	03AF	9841	0035		21110	LDR	R1,B1+MSGPTR	SET UP POINTER,LENGTH,BUFFER
001462	03B1	B841	0036		21120	LDR	R3,B1+MSGLEN	
001463	03B3	3EFB			21130	ADV	R3,-HDRLEN	WEVE TAKEN CARE OF HEADER
001464	03B4	9CC1	0034		21140	LDB	B1,B1+MSGBUF	
001465					21150	*		
001466	03B6	D380	0000	X	21160	LNJ	B5,DVPINP	PROCESS INPUT
001467	03B8	0000		X	21170	DC	<GBYTEF	BYTE GRAB ROUTINE
001468	03B9	0000		X	21180	DC	<FRBLKS	END OF STRING ROUTINE
001469	03BA	03BB			21190	DC	<IXDTE2	MESSAGE FINISHED
001470					21200	*		
001471	03BB	CCC4	000F		21210	IXDTE2	LDB	B4,B4+HOSTNT
001472	03BD	8380	0160		21220		JMP	XNETIM
001473					21230	*		
001474	03BF	3C02			21240	IXDTE3	LDV	R3,XINESC
001475	03C0	D380	0000	X	21250		LNJ	B5,DVIMSG
001476	03C2	8380	0200		21260		JMP	CMDRLS
001477					21270	*		
001478					21280	*		
001479					21290			*RECEIVE RESPONSE CLOCK HAS POPPED
001480					21300	*		
001481	03C4	8847	0001		21310	RNRCLK	LBF	B7+NETFGS,DTECLK
	03C6	2000						
001482	03C7	D380	07AD		21320		LNJ	B5,PRRCLK
001483	03C9	8380	0560		21330		JMP	XNETOM

NOTE THAT CLOCK NOT RUNNING

POP CLOCK  
ATTEMPT TO FILL OUTPUT REQUEST (IF ANY)

001484					21340	/EJECT			
001485					21350	*			
001486					21360	*HANDLE DATA FOR VIRTUAL CONNECTION WE GENERATED			
001487					21370	*			
001488	03CB	89C1	000B		21380	DCMSG	CMZ	B1+INPLEV	IS THERE AN INPUTTER FOR THIS MESSAGE
001489	03CD	0900	0200		21390		BE	CMDRLS	NO -- FREE MESSAGE
001490	03CF	9ED4			21400		SWB	B1,=B4	PASS MESSAGE ON -- UNEDITED
001491					21410	*			
001492	03D0	B380	0000	X	21420		LNJ	B3,GETBLK	BUILD MESSAGE HEADER
001493	03D2	BFC4	000C		21430		STB	B3,B4+INPMMSG	
001494	03D4	B380	0000	X	21440		LNJ	B3,GETBLK	
001495	03D6	BFCC	000C		21450		STB	B3,(B4+INPMMSG)	SAVE INFORMATION BLOCK
001496	03D8	ACC1	0034		21460		LDB	B2,B1+MSGBUF	
001497	03DA	AF83			21470		STB	B2,B3	LINK BUFFERS
001498	03DB	E841	0036		21480		LDR	R6,B1+MSGLEN	
001499	03DD	6EFB			21490		ADV	R6,-HDRLEN	ADJUST FOR HEADER
001500	03DE	EF43	0003		21500		STR	R6,B3+CURLN	
001501	03E0	E841	0035		21510		LDR	R6,B1+MSGPTR	
001502	03E2	EF43	0004		21520		STR	R6,B3+NSBERR	STEAL LOCATION FOR POINTER
001503	03E4	8743	0005		21530		CL	B3+MFLAGS	
001504	03E6	D380	0000	X	21540		LNJ	B5,NETINP	USE SPECIAL NETWORK INPUT ROUTINE
001505	03E8	8744	000C		21550		CL	B4+INPMMSG	NOT IN USE ANYMORE
001506					21560	*			
001507	03EA	CCC4	000F		21570		LDB	B4,B4+HOSTNT	RESTORE NETWORK CONTROL BLOCK
001508	03EC	ACC4	003F		21580		LDB	B2,B4+NETUSR	HANG UNTIL WE RECEIVE RESPONSE
001509	03EE	8942	0001		21590		LBT	B2+NETFGS,DTEHNG	
	03FU	4000							
001510	03F1	8380	0160		21600		JMP	XNETIM	PARSE NEXT MESSAGE

001511			21610	/EJECT		
001512			21620	*		
001513			21630	*PARSE QUALIFIED MESSAGES		
001514			21640	*		
001515	03F3	FCD1	21650	QLFMSG	LDB	B7,=B1
001516	03F4	9CC4 0034	21660		LDB	B1,B4+MSGBUF
001517	03F6	9844 0035	21670		LDR	R1,B4+MSGPTR
001518	03F8	F844 0036	21680		LDR	R7,B4+MSGLEN
001519	03FA	7EFB	21690		ADV	R7,-HDRLEN
001520	03F3	7900 0244	21700		BEZ	R7,CLRERR
001521			21710	*		
001522	03FD	A2DD	21720		LLH	R2,POP B1+R1
001523	03FE	88D7	21730		DEC	R7
001524	03FF	2D07	21740		CMV	R2,Q\$CMAX
001525	0400	0280 0244	21750		BGE	CLRERR
001526			21760	*		
001527	0402	ABA0 0409	21770		LAB	B2,DTEQMG+R2
001528	0404	82CC 003F	21780		LB	(B4+NETUSR),OUROWN
	0406	0800				
001529	0407	0580	21790		BBF	.1
001530	0408	ABA0 0412	21800		LAB	B2,DCEQMG+R2
001531			21810	*		
001532	040A	838A	21820	.1	JMP	(B2)
001533			21830	*		
001534	040B	0419	21840	DTEQMG	DC	<QMSGT1
001535	040C	0244	21850		DC	<CLRERR
001536	040D	0244	21860		DC	<CLRERR
001537	040E	0457	21870		DC	<QMSGT2
001538	040F	0244	21880		DC	<CLRERR
001539	0410	0244	21890		DC	<CLRERR
001540	0411	0244	21900		DC	<CLRERR
001541			21910	*		
001542	0412	0244	21920	DCEQMG	DC	<CLRERR
001543	0413	0464	21930		DC	<QMSGC1
001544	0414	0466	21940		DC	<QMSGC2
001545	0415	0244	21950		DC	<CLRERR
001546	0416	0434	21960		DC	<QMSGC3
001547	0417	0244	21970		DC	<CLRERR
001548	0418	0244	21980		DC	<CLRERR

SAVE USERS BLOCK ASIDE  
LOAD MESSAGE PERTINENTS

ADJUST FOR HEADER  
MUST HAVE INFORMATION

CHECK MESSAGE TYPE

CHECK AGAINST MAX CODE  
MUST HAVE PROPER CODE

ASSUME MESSAGE TO DTE  
DID WE START THIS MESS?

NO  
MESSAGE TO DCE

ROUTE TO PROPER HANDLER

PARAMETERS  
DISCONNECT  
SET PARAMETERS  
BREAK  
READ PARAMETERS  
ERROR  
SET AND READ PARAMETERS

PARAMETERS  
DISCONNECT  
SET PARAMETERS  
BREAK  
READ PARAMETERS  
ERROR  
SET AND READ PARAMETERS

001549				21990	/EJECT			
001550				22000	*			
001551				22010	*HANDLE RECEIPT OF PARAMETERS FROM DCE			
001552				22020	*			
001553	0419	7D02		22030	QMSGT1	CMV	R7,2	ONLY PARAMETER ALLOWED IS SPEED
001554	041A	0980	0244	22040		BNE	CLRERR	
001555	041C	E380	0000	22050		LNJ	B6,GBYTEB	GET WHAT SHOULD BE SPEED
001556	041E	6D0B		22060		CMV	R6,P\$RSPD	
001557	041F	0980	0244	22070		BNE	CLRERR	NOPE
001558				22080	*			
001559	0421	E380	0000	22090		LNJ	B6,GBYTEB	GET SPEED CODE
001560	0423	6008		22100		SOL	R6,8	POSITION PROPERLY
001561	0424	F870	0800	22110		LDR	R7,=X25TIP	RETURN X25 NETWORK CODE
001562	0426	ACC4	003F	22120		LDB	B2,B4+NETUSR	SAVE SPEED DETERMINATION
001563	0428	E442	0006	22130		OR	R6,B2+NTINFO	COMBINE SPEED WITH AREA CODE
001564	042A	8D42	0006	22140		SDI	B2+NTINFO	
001565	042C	D380	0000	22150		LNJ	B5,SYSCON	CONNECT TO SYSTEMS CONTROL
001566	042E	8380	0244	22160		JMP	CLRERR	IF NO MEMORY -- ENTER CLEARING CONDITION
001567				22170	*			
001568	0430	8947	0008	22180		LBT	B7+DEVFGS,SONOFF+QMFLSH	GO ONLINE
	0432	8020						
001569	0433	CCC7	000F	22190		LDB	B4,B7+HOSTNT	RESTORE NETWORK BLOCK
001570				22200	*			
001571	0435	D870	8000	22210		LDR	R5,'8000'	STACK SET BREAK AND DISCARD OUTPUT PARAMS
001572	0437	D380	0815	22220		LNJ	B5,BLDMSG	
001573	0439	6C02		22230		LDV	R6,Q\$STPM	SET PARAMETERS
001574	043A	E7DD		22240		STH	R6,POP B1+R1	
001575	043B	BCD1		22250		LDB	B3,=B1	RETAIN START OF MESSAGE
001576	043C	AB80	044C	22260		LAB	B2,CPARAM	POINT TO CONNECT PARAMETERS
001577	043E	8752		22270		CL	R2	
001578	043F	3CEA		22280		LDV	R3,-CPARML*2	SET LOOP COUNTER
001579				22290	*			
001580	0440	E2EE		22300	.1	LLH	R6,POP B2+R2	LOAD NEXT VALUE
001581	0441	E380	0000	22310		LNJ	B6,PBYTEG	PLACE IN MESSAGE
001582	0443	37FD		22320		BINC	R3,.1	LOOP UNTIL EXHAUSTED
001583				22330	*			
001584	0444	9CD3		22340		LDB	B1,=B3	RESTORE STARTING LOCATION OF MESSAGE
001585	0445	7E17		22350		ADV	R7,CPARML*2+1	INCREASE LENGTH
001586	0446	ABC4	0005	22360		LAB	B2,B4+OUTQ	
001587	0448	D330	0803	22370		LNJ	B5,ADMSGQ	ADD THIS MESSAGE TO OUTPUT QUEUE
001588	044A	8380	0200	22380		JMP	CMDRLS	RELEASE MESSAGE AND CONTINUE
001589				22390	*			
001590	044C	0302		22400	CPARAM	DC	Z'03020400071508000A000C01002112041C1B1D004007'	CONNECT PARAMETERS
	044D	0400						
	044E	0715						
	044F	0800						
	0450	0A00						
	0451	0C01						
	0452	0021						
	0453	1204						
	0454	1C1B						
	0455	1D00						

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001591 0456 4007 000B

22410 CPARML EQU \$-CPARAM

NUMBER OF WORDS IN PARAMATERS

001592				22420	/EJECT		
001593				22430	*		
001594				22440	*HANDLE RECEIPT OF BREAK INDICATION		
001595				22450	*		
001596	0457	7D02		22460	QMSGT2	CMV	R7,.2
001597	0458	0980	0244	22470		BNE	CLRERR
001598	045A	E380	0000	22480		LNJ	B6,GBYTEB
001599	045C	6D08		22490		CMV	R6,P\$DSOT
001600	045D	0980	0244	22500		BNE	CLRERR
001601	045F	8847	0008	22510		LBF	B7+DEVFGS,DCRDTA
	0461	0040					
001602	0462	8380	0200	22520		JMP	CMDRLS
001603				22530	*		
001604				22540	*		
001605				22550	*HANDLE RECEIPT OF CLEAR INDICATION		
001606				22560	*		
001607	0464	8380	0247	22570	QMSGC1	JMP	CLRDTA
001608				22580	*		
001609				22590	*		
001610				22600	*HANDLE REQUEST TO SET PARAMETERS FROM DTE		
001611				22610	*		
001612	0466	7900		22620	QMSGC2	BEZ	R7,.4
001613	0467	7BFF		22630		BODD	R7,.4
001614				22640	*		
001615	0468	E380	0000	22650	.1	LNJ	B6,GBYTEB
001616	046A	6900	0200	22660		BEZ	R6,CMDRLS
001617	046C	D856		22670		LDR	R5,R6
001618	046D	E380	0000	22680		LNJ	B6,GBYTEB
001619	046F	5D07		22690		CMV	R5,P\$SBRK
001620	0470	0900		22700		BE	.2
001621	0471	5D08		22710		CMV	R5,P\$DSOT
001622	0472	0980		22720		BNE	.3
001623				22730	*		
001624	0473	82D6		22740		LB	R6,'FFFE'
	0474	FFFE					
001625	0475	0572		22750		BBT	.4
001626	0476	82D6		22760		LB	R6,'0001'
	0477	0001					
001627	0478	8A47	0008	22770		LBS	B7+DEVFGS,DCRDTA
	047A	0040					
001628	047B	0FF7		22780		B	.3
001629				22790	*		
001630	047C	6D15		22800	.2	CMV	R6,.21
001631	047D	09F8		22810		BNE	.4
001632				22820	*		
001633	047E	7EFE		22830	.3	ADV	R7,-2
001634	047F	79E9		22840		BNEZ	R7,.1
001635	0480	8380	0200	22850		JMP	CMDRLS
001636				22860	*		
001637	0482	8380	0244	22870	.4	JMP	CLRERR

BREAK CONTAINS DISABLE OUTPUT PARAMETER  
CLEAR CONNECTION IF FALSE  
GET PARAMETER COMMAND  
DISCARD OUTPUT?  
NOPE -- CLEAR CONNECTION IF FALSE  
DONT DISCARD RECEIVED MESSAGES

RELEASE MESSAGE AND CONTINUE

START DISCONNECT (NO DATA FORWARD)

MUST HAVE PARAMETERS TO SET  
MUST BE PAIRED

GET NEXT PARAMETER TYPE CODE  
STOP SCAN WHEN NATIONAL MARKER FOUND  
SAVE COMMAND ASIDE  
GET OPTION SETTING  
BREAK OPTIONS?

DISCARD OUTPUT OPTION?

CHECK FOR VALID SETTINGS

COPY SETTING

LOOP FOR NEXT PARAMETER

MUST BE DEFAULT SETTING

REDUCE OVERALL LENGTH  
LOOP FOR ALL PARAMETERS  
RELEASE MESSAGE AND CONTINUE

HANDLE PARAMETERS WHICH CONFUSE US



001638				22880	/EJECT			
001639				22890	*			
001640				22900	*HANDLE REQUEST FOR PARAMETER VALUES FROM DTE			
001641				22910	*			
001642	0484	7D02		22920	.QMSGC3	CMV	R7,2	ONLY PARAMETER ALLOWED IS SPEED
001643	0485	09FD	T	22930		BNE	.4	
001644	0486	E380	0000	22940		LNJ	B6,GBYTEB	GET WHAT SHOULD BE SPEED
001645	0488	6D0B		22950		CMV	R6,P\$RSPD	
001646	0489	09F9	T	22960		BNE	.4	NOPE
001647	048A	E380	0000	22970		LNJ	B6,GBYTEB	GET SPEED CODE
001648	048C	69F6	T	22980		BNEZ	R6,.4	MUST NOT HAVE A VALUE
001649				22990	*			
001650	048D	D870	8000	23000		LDR	R5,'8000'	PREP DATA QUALIFIED MESSAGE
001651	048F	D380	0815	23010		LNJ	B5,BLDMSG	
001652	0491	4C00		23020		LDV	R4,Q\$PRMS	SUPPLY PARAMETERS
001653	0492	C7DD		23030		STH	R4,POP B1+R1	
001654	0493	4C0B		23040		LDV	R4,P\$RSPD	RETURN SPEED
001655	0494	C7DD		23050		STH	R4,POP B1+R1	
001656	0495	ACC4	003F	23060		LDB	B2,B4+NETUSR	LOAD AND RETURN SPEED
001657	0497	E842	0006	23070		LDR	R6,B2+NTINFO	
001658	0499	E7DD		23080		STH	R6,POP B1+R1	
001659				23090	*			
001660	049A	7E03		23100		ADV	R7,3	ADD OUR MESSAGE TO QUALIFIED QUEUE
001661	049B	ABC4	0005	23110		LAB	B2,B4+OUTQ	
001662	049D	D380	0803	23120		LNJ	B5,ADMSGQ	ADD THIS MESSAGE TO OUTPUT QUEUE
001663				23130	*			
001664	049F	8380	0200	23140		JMP	CMDRLS	RELEASE MESSAGE AND CONTINUE

001665					23150	/EJECT			
001666					23160	*			
001667					23170	*INTERRUPT INDICATION			
001668					23180	*			
001669	04A1	82CC	003F		23190	ITXII	LB	(B4+NETUSR),OUROWN	IF WERE INITIATOR THEN CANT HAPPEN
	04A3	0800							
001670	04A4	0500	0244		23200		BBT	CLRERR	CLEAR IF IT DOES
001671	04A6	894C	003F		23210		LBT	(B4+NETUSR),RSPOND	SET FLAG TO RESPOND TO INTERRUPT
	04A8	1000							
001672	04A9	0500		T	23220		BBT	.3	IF ONE IN PROGRESS THEN IGNORE ANOTHER
001673					23230	*			
001674	04AA	D380	0000	X	23240		LNJ	B5,NETCHK	FIND USERS BLOCK
001675	04AC	0200			23250		DC	<CMDRLS	FINISHED IF NO USER ASSOCIATED
001676					23260	*			
001677	04AD	CCD1			23270		LDB	B4,=B1	WORK WITH NETWORK USER DEVICE BLOCK
001678	04AE	8944	0008		23280		LBT	B4+DEVFGS,DCRDTA+QMFLSH	DISCARD DATA UNTIL BREAK RECEIVED
	04B0	0060							
001679	04B1	D380	0000	X	23290		LNJ	B5,DQRBRK	GIVE BREAK TO ALL PARTIES
001680	04B3	D380	0000	X	23300		LNJ	B5,DEVKOT	KILL ALL DEVICE QUEUED OUTPUT
001681	04B5	D380	0000	X	23310		LNJ	B5,DVKINP	KILL ANY REMAINING INPUT
001682	04B7	4C02			23320		LDV	R4,Q\$STPM	SET DISCARD OUTPUT FALSE
001683					23330	*			
001684	04B8	CCC4	000F		23340	.1	LDB	B4,B4+HOSTNT	RESTORE NETWORK BLOCK
001685	04BA	D870	8000		23350		LDR	R5,'8000'	PREP DATA QUALIFIED MESSAGE
001686	04BC	D380	0815		23360		LNJ	B5,BLDMSG	
001687	04BE	C7D0			23370		STH	R4,POP B1+R1	
001688	04BF	E870	0008		23380		LDR	R6,=PM\$ENO	ASSUME WERE TO ENABLE OUTPUT
001689	04C1	4D02			23390		CMV	R4,Q\$STPM	IS THIS OPTIONS SETTING ATTEMPT
001690	04C2	0900		T	23400		BE	.2	YESSIR
001691	04C3	E870	0108		23410		LDR	R6,=PM\$DSO	ELSE ITS INDICATION OF BREAK..DISABLE OUTPUT
001692					23420	*			
001693	04C5	E7D0			23430	.2	STH	R6,POP B1+R1	STORE DISCARD OUTPUT COMMAND/OPTION
001694	04C6	6043			23440		SOR	R6,8	
001695	04C7	E7D0			23450		STH	R6,POP B1+R1	
001696	04C8	F851			23460		LDR	R7,R1	COMPUTE LENGTH
001697	04C9	7EFE			23470		ADV	R7,-2	
001698	04CA	ABC4	0005		23480		LAB	B2,B4+OUTQ	
001699	04CC	D380	0803		23490		LNJ	B5,ADMSGQ	ADD THIS MESSAGE TO OUTPUT QUEUE
001700					23500	*			
001701	04CE	8380	0200		23510	.3	JMP	CMDRLS	RELEASE MESSAGE

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001702					23520 /EJECT		
001703					23530 *		
001704					23540 *INTERRUPT CONFIRMATION		
001705					23550 *		
001706	0400	82CC	003F		23560 .ITXIC	LB	(B4+NETUSR),OUROWN WE MUST BE INITIATOR FOR THIS TO HAPPEN
	0402	0800					
001707	0403	0580	0244		23570	BBF	CLRERR CLEAR IF WERE NOT
001708					23580 *		
001709	0405	0380	0000	X	23590	LNJ	B5,NETCHK FIND USERS BLOCK
001710	0407	0200			23600	DC	<CMDRLS FINISHED IF NO USER ASSOCIATED
001711	0408	8841	0008		23610	LBF	B1+DEVFGS,BRKACT CLEAR USER BREAK FLAG
	040A	0080					
001712	040B	0580	0244		23620	BBF	CLRERR WHAT FLAG?
001713	040D	4003			23630	LDV	R4,Q\$IBRK SEND INDICATION OF BREAK MESSAGE
001714	040E	0FDA		T	23640	B	.1 JOIN MESSAGE BUILDER

001715					23650	/EJECT			
001716					23660	*			
001717					23670	*PRINT MESSAGE IN ERROR			
001718					23680	*			
001719	04DF	D380	0000	X	23690	PNTERM	LNJ	B5,MGSTRT	ALLOCATE MESSAGE
001720	04E1	AB80	050A		23700		LAB	B2,NERMSG	ERROR MESSAGE
001721	04E3	2C10			23710		LDV	R2,NERMGL*2	
001722	04E4	D380	0000	X	23720		LNJ	B5,MGCOPY	
001723	04E6	ACD7			23730		LDB	B2,=B7	QUALIFY MESSAGE
001724	04E7	2C02			23740		LDV	R2,2	
001725	04E8	D380	0000	X	23750		LNJ	B5,MGCOPY	
001726	04EA	E844	0036		23760		LDR	R6,B4+MSGLEN	SPIT LENGTH OUT
001727	04EC	D380	0000	X	23770		LNJ	B5,MGHEX	
001728					23780	*			
001729	04EE	2C02			23790		LDV	R2,2	POINT AT TOP OF MESSAGE
001730	04EF	AF44	0035		23800		STR	R2,B4+MSGPTR	
001731					23810	*			
001732	04F1	89C4	0036		23820	.1	CMZ	B4+MSGLEN	ANY LEFT TO PRINT?
001733	04F3	0900		T	23830		BE	.2	
001734	04F4	D380	0000	X	23840		LNJ	B5,MGCHAR	SPACE ONCE
001735	04F6	0020			23850		DC	\$ASCSP	
001736	04F7	ACC4	0034		23860		LDB	B2,B4+MSGBUF	LOOK UP NEXT BYTE
001737	04F9	A844	0035		23870		LDR	R2,B4+MSGPTR	
001738	04FB	E380	0000	X	23880		LNJ	B6,GBYTXB	LOAD AND BUMP
001739	04FD	AFC4	0034		23890		STB	B2,B4+MSGBUF	UPDATE
001740	04FF	AF44	0035		23900		STR	R2,B4+MSGPTR	
001741	0501	88C4	0036		23910		DEC	B4+MSGLEN	
001742	0503	D380	0000	X	23920		LNJ	B5,MGHEX	SPIT NEXT BYTE OUT
001743	0505	0FEC		T	23930		B	.1	
001744					23940	*			
001745	0506	D8C7	0001		23950	.2	LAB	B5,B7+1	RETURN AFTER SENDING MESSAGE
001746	0508	8380	0000	X	23960		JMP	MGSEND	
001747					23970	*			
001748	050A	5832			23980	NERMSG	DC	'X25 NET MSG ERR '	IF MESSAGE FLAWED
	050B	3520							
	050C	4E45							
	050D	5420							
	050E	4D53							
	050F	4720							
	0510	4552							
	0511	5220							
001749		0008			23990	NERMGL	EQU	\$-NERMSG	

001750					24000	/EJECT			
001751					24010	*			
001752					24020	*	DEVICE WOULD APPRECIATE ANOTHER OUTPUT MESSAGE		
001753					24030	*			
001754	0512	FCC4	000F		24040	XNTOTM	LDB	B7,B4+HOSTNT	WORK WITH NETWORK DEVICE
001755	0514	CE07			24050		SWB	B4,=B7	
001756	0515	D380	0000	X	24060		LNJ	B5,CKOUTQ	ANY OUTPUT TO BE FOUND?
001757	0517	0524			24070		DC	<XNTOTX	MORE OUTPUT
001758					24080	*			
001759	0518	CE07			24090		SWB	B4,=B7	ADJUST REGISTERS
001760	0519	8947	0008		24100		LBT	B7+DEVFGS,TSKSNT	HAVE WE SENT TASK TO CREATE MORE?
	051B	0020							
001761	051C	0500		T	24110		BBT	.1	YES .. RETURN WITHOUT OUTPUT
001762	051D	5C30			24120		LDV	R5,NETLEV	
001763	051E	EB80	055A		24130		LAB	B6,XNETOT	BUILD SOME MORE OUTPUT
001764	0520	B380	0000	X	24140		LNJ	B3,BLDTSK	
001765					24150	*			
001766	0522	8380	0000	X	24160	.1	JMP	TSKRTN	NORMAL RETURN INDICATES NOTHING TO SEND
001767					24170	*			
001768	0524	CE07			24180	XNTOTX	SWB	B4,=B7	ADJUST REGISTERS
001769	0525	9CC7	0025		24190		LDB	B1,B7+OMSGFB	COPY A MESSAGE FROM NET TO DEVICE
001770	0527	9847	0026		24200		LDR	R1,B7+OMSGFP	
001771	0529	D811			24210		LDR	R5,B1+R1	
001772	052A	E380	0000	X	24220		LNJ	B6,GWORDF	
001773	052C	E380	0000	X	24230		LNJ	B6,GWORDF	
001774	052E	9FC7	0025		24240		STB	B1,B7+OMSGFB	SAVE UPDATED POINTERS
001775	0530	9F47	0026		24250		STR	R1,B7+OMSGFP	
001776					24260	*			
001777	0532	9CC4	0029		24270		LDB	B1,B4+OMSGLB	EXTEND DEVICE MESSAGE QUEUE
001778	0534	9844	002A		24280		LDR	R1,B4+OMSGLP	
001779	0536	DE56			24290		SWR	R5,R6	
001780	0537	E380	0000	X	24300		LNJ	B6,PWORDG	
001781	0539	E855			24310		LDR	R6,R5	
001782	053A	E380	0000	X	24320		LNJ	B6,PWORDG	
001783	053C	9FC4	0029		24330		STB	B1,B4+OMSGLB	SAVE UPDATED POINTERS
001784	053E	9F44	002A		24340		STR	R1,B4+OMSGLP	
001785	0540	8380	0000	X	24350		JMP	TSKRTE	EXCEPTION RETURN USED TO INDICATE MORE OUTPUT
001786					24360	*			
001787					24370	*			
001788					24380	*	ROUTINE TO HANDLE CALL BACK TO DEVICE		
001789					24390	*			
001790	0542	82C7	0008		24400	XNTCBK	LB	B7+DEVFGS,SONOFF	ARE WE STILL ONLINE?
	0544	8000							
001791	0545	0580		T	24410		BBF	.1	
001792	0546	CCC7	0015		24420		LDB	B4,B7+MOTHER	INFORM DEVICE IF WAITING
001793	0548	82C4	0011		24430		LB	B4+PFLAGS,IDLEOT	
	054A	0400							
001794	054B	0500	0000	X	24440		BBT	TSKRTN	USE NORMAL ROUTINE TO WAKE DEVICE
001795					24450	*			
001796	054D	8380	0000	X	24460	.1	JMP	SMCPXT	GO BACK TO SLEEP

001797					24470	/EJECT				
001798					24480	*				
001799					24490	* ROUTINE TO CREATE A NETWORK PACKET TO BE SENT				
001800					24500	*				
001801	054F	8944	0011		24510	XNETOY	LBT	B4+PFLAGS, IDLEOT	WE NEED OUTPUT	
	0551	0400								
001802	0552	BB80	0558		24520		LAB	B3, XNETOZ	WAKE US UP IF NEEDED	
001803	0554	BFC4	000A		24530		STB	B3, B4+TSKRET		
001804	0556	8380	0000	X	24540		JMP	SMCPXT	WAIT FOR SOMETHING INTERESTING	
001805					24550	*				
001806	0558	08FC			24560	XNETOZ	DC	<NETERR	NO EXCEPTION RETURN	
001807	0559	0F87			24570		B	\$XNETOM	ATTEMPT TO FILL OUTPUT REQUEST (IF ANY)	
001808					24580	*				
001809	055A	CCD7			24590	XNETOT	LDB	B4, =B7	ADJUST REGISTERS	
001810	055B	82C4	0008		24600		LB	B4+DEVFGS, SONOFF	ARE WE STILL ONLINE?	
	055D	8000								
001811	055E	0580	0000	X	24610		BBF	SMCPXT	NO -- SIT AND WAIT	
001812					24620	*				
001813	0560	8844	0011		24630	XNETOM	LBF	B4+PFLAGS, IDLEOT	WE WILL FIGURE THIS OUT LATER	
	0562	0400								
001814	0563	82C4	0008		24640		LB	B4+DEVFGS, TSKSNT	DID DEVICE STILL WANT MESSAGE	
	0565	0020								
001815	0566	0580	0000	X	24650		BBF	SMCPXT	NO -- GO BACK TO SLEEP	
001816					24660	*				
001817	0568	82C4	0008		24670		LB	B4+DEVFGS, RSTRTM	ARE WE IN RESTART MODE?	
	056A	0400								
001818	056B	0580		T	24680		BBF	.2		
001819	056C	8944	0008		24690		LBT	B4+DEVFGS, RSTRTX	HAVE WE SENT INDICATION?	
	056E	0100								
001820	056F	0560			24700		BBT	\$XNETOY	YES -- NOTHING MORE TO SAY	
001821					24710	*				
001822	0570	8744	0039		24720		CL	B4+ADDRSS	SEND WITH ADDRESS=0	
001823	0572	82C4	0008		24730		LB	B4+DEVFGS, RSTRTR	ARE WE INVOKING A RESPONSE?	
	0574	0200								
001824	0575	0580		T	24740		BBF	.1	NO -- A RESTART SENT BY US	
001825	0576	D870	00FF		24750		LDR	R5, =\$X25RC	SEND RESET CONFIRMATION	
001826	0578	8844	0008		24760		LBF	B4+DEVFGS, RSTRTM+RSTRTR+RSTRTX	LEAVE RESTART MODE	
	057A	0700								
001827	057B	8380	06D4		24770		JMP	RSPNDA	BUILD PROTOTYPE MESSAGE	
001828					24780	*				
001829	057D	D870	5460		24790	.1	LDR	R5, =ONESEC*180	MUST FINISH INSIDE THREE MINUTES	
001830	057F	EB80	021D		24800		LAB	B6, REINIT	ELSE WE SHOULD RE-ISSUE IT	
001831	0581	FC04			24810		LDB	B7, =B4	CLOCKS WORK WITH <B7>	
001832	0582	D380	0000	X	24820		LNJ	B5, ADDCLK	ONE MORE CLOCK	
001833	0584	BFC4	000C		24830		STB	B3, B4+RNTCLK	SAVE CLOCK ASIDE	
001834	0586	D870	00FB		24840		LDR	R5, =\$X25RI	SEND RESET INDICATION	
001835	0588	8380	06D8		24850		JMP	RSPNDB	BUILD PROTOTYPE MESSAGE	
001836					24860	*				
001837	058A	A844	0038		24870	.2	LDR	R2, B4+LSTUSR	SCAN THROUGH USERS LIST FOR MESSAGE TO SEND	
001838	058C	0F80		T	24880		B	.3	JOIN TOP OF LOOP	
001839					24890	*				
001840	058D	A844	0037		24900	.XNETOL	LDR	R2, B4+SVCUSR	CHECK IF WE HAVE FINISHED SCAN	

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001841	058F	A944	0038	24910	CMR	R2,B4+LSTUSR
001842	0591	0900	054F	24920	BE	XNETOY
001843				24930 *		
001844	0593	8AD2		24940 .3	INC	R2
001845	0594	A570	007F	24950	AND	R2,'007F'
001846	0596	AF44	0037	24960	STR	R2,B4+SVCUSR
001847	0598	AF44	0039	24970	STR	R2,B4+ADDRSS
001848	059A	ACC4	000E	24980	LDB	B2,B4+NETMAP
001849	059C	8DA2		24990	CMN	B2+R2
001850	059D	0970		25000	BE	\$XNETOL
001851	059E	ACA2		25010	LDB	B2,B2+R2
001852	059F	AFC4	003F	25020	STB	B2,B4+NETUSR
001853				25030 *		
001854	05A1	8802		25040	LBF	B2,RSPOND
	05A2	1000				
001855	05A3	0500	069F	25050	BBT	XNETOR

SCAN FINISHED -- NOTHING TO SAY

ANALYZE NEXT VIRTUAL CONNECTION PORT  
ISOLATE TO ADDRESS BITS IN USE

IS THERE A NON 'READY' STATE SET  
NO -- TRY NEXT CHANNEL  
COPY MAP BLOCK OVER

ARE WE TO RESPOND TO SOMETHING?

YES -- BUILD RESPONSE

001856				25060	/EJECT			
001857				25070	*			
001858				25080	*CHECK IF RNR LOGIC INVOKED			
001859				25090	*			
001860	05A5	8842	0001	25100	LBF	B2+NETFGS,DTERNR	HAS RNR BEEN SENT	
	05A7	8000						
001861	05A8	0580		25110	BBF	.32		
001862	05A9	82C2	0001	25120	LB	B2+NETFGS,DTEHNG	ARE WE STILL HUNG?	
	05AB	4000						
001863	05AC	0580	0698	25130	BBF	SNDRRX	FORCE RECEIVE READY OUT	
001864				25140	*			
001865	05AE	8942	0001	25150	.31	LBT	B2+NETFGS,DTERNR	NOT READY HAS BEEN SENT
	05B0	8000						
001866	05B1	D380	074A	25160	LNJ	B5,UCKRPS	ANYTHING TO CONFIRM?	
001867	05B3	0580		25170	BBF	.4	NO -- SEND DATA IF WE GOT ANY	
001868	05B4	D380	0752	25180	LNJ	B5,UPDRPS	UPDATE RECEIVE SEQUENCE	
001869	05B6	5E05		25190	ADV	R5,\$X25NR		
001870	05B7	D380	0815	25200	LNJ	B5,BLDMSG	BUILD PROTOTYPE MESSAGE	
001871	05B9	8380	06FB	25210	JMP	XNETOX	RETURN (PRINT MONITORS)	
001872				25220	*			
001873	05BB	82C2	0001	25230	.32	LB	B2+NETFGS,DTEHNG	ARE WE STILL UNABLE TO CONTINUE
	05BD	4000						
001874	05BE	0580		25240	BBF	.33		
001875	05BF	82C2	0001	25250	LB	B2+NETFGS,DTECLK	IF RESPONSE CLOCK RUNNING?	
	05C1	2000						
001876	05C2	05EC		25260	BBF	.31	NO -- SEND RNR	
001877	05C3	0FF0		25270	B	.4	SEND DATA -- DONT CONFIRM PACKETS	
001878				25280	*			
001879	05C4	8842	0001	25290	.33	LBF	B2+NETFGS,DTECLK	RESET CLOCK IF IT WAS RUNNING
	05C6	2000						
001880	05C7	B380	079C	25300	LNJ	B3,KRRCLK	RESET RECEIVE RESPONSE CLOCK	
001881				25310	*			
001882	05C9	D380	0000	25320	.4	LNJ	B5,NETCHK	SEE IF USER BLOCK EXISTS
001883	05CB	0666		25330	DC	<SNDQMX	NO ATTEMPT TO SEND QUALIFIED MESSAGES	
001884	05CC	FC01		25340	LDB	B7,=B1	WORK WITH USERS BLOCK NOW	
001885				25350	*			
001886	05CD	CC07		25360	.XNETOE	LDB	B4,=B7	RESTORE USERS BLOCK TO FOREFRONT
001887	05CE	D380	0000	25370	LNJ	B5,DVGOUT	ANY OUTPUT?	
001888	05D0	FC04		25380	LDB	B7,=B4	MOVE USERS BLOCK ASIDE	
001889	05D1	CCC7	000F	25390	LDB	B4,B7+HOSTNT	RESTORE NETWORK CONTROL BLOCK	
001890	05D3	3980		25400	BNEZ	R3,.6	BUILD OUTPUT MESSAGE	
001891				25410	*			
001892	05D4	82C7	0008	25420	LB	B7+DEVFGS,SONOFF	ARE WE OFFLINE NOW?	
	05D6	8000						
001893	05D7	0500	0668	25430	BBT	SENDQM	NOPE -- TRY SENDING QUALIFIED MESSAGES	
001894	05D9	82C7	0008	25440	LB	B7+DEVFGS,OFLTSK	INSURE WE DONT KILL CONNECTIONS BEFORE	
	05DB	4000						
001895	05DC	0580	0668	25450	BBF	SENDQM	WE GET SPEED BACK TO START THEM UP	



001896				25460	/EJECT		
001897				25470	*		
001898				25480	*FORCE DISCONNECT FROM NETWORK		
001899				25490	*		
001900	05DE	ABC4	0002	25500	LAB	B2,B4+SOFTQ	RELEASE USERS BLOCK
001901	05E0	9CD7		25510	LDB	B1,=B7	
001902	05E1	0060		25520	DQA		RELEASE THIS USER
001903	05E2	0680	08FC	25530	BCF	NETERR	HANDLE FUNNY MACHINE
001904	05E4	0980	08FC	25540	BNE	NETERR	WHY ME LORD
001905	05E6	B380	0000	25550	LNJ	B3,FNETBK	RELEASE NETWORK BLOCK
001906				25560	*		
001907	05E8	82CC	003F	25570	LB	(B4+NETUSR),OUROWN	IF OUR CONNECTION THEN START DISCONNECT
	05EA	0800					
001908	05EB	0580		25580	BBF	.5	
001909	05EC	D380	07BC	25590	LNJ	B5,CLRUSR	FREE USERS INFORMATION
001910	05EE	B380	0797	25600	LNJ	B3,KTOCLK	RESET ANY PREVIOUS CLOCK
001911	05F0	B380	079C	25610	LNJ	B3,KRRCLK	RESET RECEIVE RESPONSE CLOCK
001912	05F2	874C	003F	25620	CL	(B4+NETUSR)	ENTER DTE CLEARING MODE
001913	05F4	894C	003F	25630	LBT	(B4+NETUSR),X\$TCLR	
	05F6	6000					
001914	05F7	8380	069F	25640	JMP	XNETOR	ENTER RESPONSE GENERATOR
001915				25650	*		
001916	05F9	D870	8000	25660	.5	LDR	R5,'8000'
001917	05FB	D380	0815	25670	LNJ	B5,BLDMSG	BUILD QUALIFIED MESSAGE
001918	05FD	6C01		25680	LDV	R6,Q\$IDSC	BUILD PROTOTYPE MESSAGE
001919	05FE	E7DD		25690	STH	R6,POP B1+R1	
001920	05FF	8AD7		25700	INC	R7	INCREASE MESSAGE LENGTH
001921	0600	ABC4	0005	25710	LAB	B2,B4+OUTQ	ADD MESSAGE TO QUEUE
001922	0602	D380	0803	25720	LNJ	B5,ADMSGQ	
001923	0604	8380	0666	25730	JMP	SNDQMX	NOW SEND QUALIFIED MESSAGES (IF ABLE)
001924				25740	*		
001925	0606	82CC	003F	25750	.6	LB	(B4+NETUSR),DTEPSF+DCERNR ANY REASON NOT TO SEND?
	0608	0402					
001926	0609	0500	068D	25760	BBT	SENDRR	YES -- QUALIFIED WONT EVEN FLY
001927	060B	82C7	0008	25770	LB	B7+DEVFGS,QMFLSH	ARE WE TO SEND QUALIFIED MESSAGES FIRST?
	060D	0020					
001928	060E	0500	0668	25780	BBT	SENDQM	YES -- MAYBE QUALIFIED WILL FLY
001929	0610	8755		25790	CL	R5	NO NETWORK COMMAND YET
001930	0611	D380	0815	25800	LNJ	B5,BLDMSG	BUILD PROTOTYPE MESSAGE
001931				25810	*		
001932	0613	9FC4	003B	25820	STB	B1,B4+MSGHDR	SAVE FIRST BUFFER FOR RETURNING
001933	0615	9FC4	0034	25830	STB	B1,B4+MSGBUF	SAVE BUFFER
001934	0617	9F44	0035	25840	STR	R1,B4+MSGPTR	SAVE POINTER
001935	0619	8744	0036	25850	CL	B4+MSGLEN	SAVE VACUOUS LENGTH
001936				25860	*		
001937	061B	CCD7		25870	LDB	B4,=B7	WORK WITH USER AGAIN
001938	061C	D380	0000	25880	LNJ	B5,DVKINP	CLEAR ANY INPUT QUEUED
001939	061E	D380	0000	25890	LNJ	B5,DVGCUT	GET FIRST BLOCK OF OUTPUT

001940					25900	/EJECT			
001941					25910	*			
001942					25920	*COPY OUTPUT MESSAGE LOGIC			
001943					25930	*			
001944	0620	BCC4	000F		25940	.7	LDB	B3,B4+HOSTNT	LOAD BUFFERS, ETC.
001945	0622	ACC3	0034		25950		LDB	B2,B3+MSGBUF	
001946	0624	A843	0035		25960		LDR	R2,B3+MSGPTR	
001947	0626	F843	0036		25970		LDR	R7,B3+MSGLEN	
001948					25980	*			
001949	0623	82CB	003F		25990		LB	(B3+NETUSR),OUROWN	IF OUR CONNECTION THEN DONT EDIT DATA
	062A	0800							
001950	0623	0580		T	26000		BBF	.72	
001951					26010	*			
001952	062C	E380	0000	X	26020	.71	LNJ	B6,GBYTEF	COPY STRAIGHT OVER
001953	062E	E380	0000	X	26030		LNJ	B6,PBYTXG	
001954	0630	88D3			26040		DEC	R3	ONE LESS FROM MESSAGE
001955	0631	8AD7			26050		INC	R7	ONE MORE INTO MESSAGE
001956	0632	3900		T	26060		BEZ	R3,.75	IF EMPTY THEN CUT AND SEND
001957	0633	7D7F			26070		CMV	R7,127	ARE WE AT MESSAGE MAX LENGTH
001958	0634	C3F8		T	26080		BLE	.71	NOPE -- ROOM LEFT -- COPY AGAIN
001959	0635	0FFD		T	26090		B	.75	IF MESSAGE FILLED THEN CUT AND SEND
001960					26100	*			
001961	0636	E291			26110	.72	LLH	R6,B1+R1	LOAD BYTE TO TRANSMIT
001962	0637	82C4	0008		26120		LB	B4+DEVFGS,OTPURE	IF PURE OUTPUT THEN SAVE IT
	0639	0008							
001963	063A	0500		T	26130		BBT	.73	
001964	063B	E570	007F		26140		AND	R6,'007F'	ISOLATE TO DATA BITS
001965	063D	6900		T	26150		BEZ	R6,.74	IGNORE NULLS
001966	063E	6D7F			26160		CMV	R6,\$ASCRO	IGNORE FILLS
001967	063F	097E		T	26170		BE	.74	
001968					26180	*			
001969	0640	7D7F			26190	.73	CMV	R7,127	ARE WE PAST MESSAGE MAX
001970	0641	0374		T	26200		BG	.75	YES -- NO ROOM -- EXIT
001971	0642	E380	0000	X	26210		LNJ	B6,PBYTXG	SAVE IN OUTPUT CHAIN
001972	0644	8AD7			26220		INC	R7	ONE MORE INTO THE HOPPER
001973					26230	*			
001974	0645	E380	0000	X	26240	.74	LNJ	B6,GBYTEF	RELEASE LAST BYTE
001975	0647	88D3			26250		DEC	R3	
001976	0648	39EE		T	26260		BNEZ	R3,.72	TRY AGAIN
001977					26270	*			
001978	0649	AFC3	0034		26280		STB	B2,B3+MSGBUF	SAVE INTERIM BUFFERS, ETC.
001979	064B	AF43	0035		26290		STR	R2,B3+MSGPTR	
001980	064D	FF43	0036		26300		STR	R7,B3+MSGLEN	
001981					26310	*			
001982	064F	D380	0000	X	26320		LNJ	B5,DVROUT	RETURN USED OUTPUT
001983	0651	39CF		T	26330		BNEZ	R3,.7	
001984	0652	0F80		T	26340		B	.76	JOIN COMMON WRAPUP
001985					26350	*			
001986	0653	FF43	0036		26360	.75	STR	R7,B3+MSGLEN	SAVE FINAL LENGTH
001987	0655	D380	0000	X	26370		LNJ	B5,DVROUT	RETURN USED OUTPUT
001988					26380	*			
001989	0657	FCD4			26390	.76	LDB	B7,=B4	RETAIN USERS BLOCK

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001990 0658 CCC7 000F  
001991 065A 9CC4 003B  
001992 065C F844 0036  
001993 065E 7E05  
001994 065F 7D05  
001995 0660 0980 06E1  
001996 0662 E380 0000  
001997 0664 8380 05CD

X

26400  
26410  
26420  
26430  
26440  
26450  
26460  
26470

LDB  
LDB  
LDR  
ADV  
CMV  
BNE  
LNJ  
JMP

B4,B7+HOSTNT  
B1,B4+MSGHDR  
R7,B4+MSGLEN  
R7,HDRLN  
R7,HDRLN  
XNETOW  
B6,FRBLKS  
XNETOE

RESTORE NETWORK BLOCK  
LOAD TOP BUFFER IN OUTPUT MESSAGE  
RESTORE ACTUAL MESSAGE LENGTH  
ADD HEADER LENGTH TO TOTAL  
VACUOUS MESSAGE?  
NO -- FINISH MESSAGE  
RELEASE MESSAGE WHICH NEVER FILLED  
CHECK OFFLINE LOGIC

001998					26480	/EJECT			
001999					26490	*			
002000					26500	*CHECK IF QUALIFIED MESSAGE WILL FLY			
002001					26510	*			
002002	0666	FC80	08FB		26520	SNDQMX	LDB	B7,ZERO	CLEAR USER BLOCK REGISTER
002003					26530	*			
002004	0668	82CC	003F		26540	SENDQM	LB	(B4+NETUSR),DTEPSF+DCERNR	ANY REASON NOT TO SEND?
	066A	0402							
002005	066B	0522			26550		BBT	\$SENDRR	TRY CONFIRMING SOME PACKETS
002006					26560	*			
002007	066C	ABC4	0005		26570		LAB	B2,B4+OUTQ	SEE IF ANY CONTROL MESSAGES STACKED
002008	066E	D844	0039		26580		LDR	R5,B4+ADDRSS	
002009	0670	D404			26590		OR	R5,B4	
002010	0671	0062			26600		DQH		
002011	0672	0630	08FC		26610		BCF	NETERR	HANDLE FUNNY MACHINE
002012	0674	0980		T	26620		BNE	.1	NONE OR OURS FOUND
002013					26630	*			
002014	0675	8944	0039		26640		LBT	B4+ADDRSS,'9000'	SET QUALIFIER ON (FOR TRACE)
	0677	9000							
002015	0678	F841	0006		26650		LDR	R7,B1+RWORD	GET ACTUAL MESSAGE LENGTH
002016	067A	BCC1	0004		26660		LDB	B3,B1+UWORD	GET MESSAGE BUFFER ADDRESS
002017	067C	BF31			26670		STB	B3,B1	POP BUFFER ADDRESS WITH RELEASE
002018	067D	B380	0000	X	26680		LNJ	B3,RELBLK	
002019	067F	8380	06E1		26690		JMP	XNETOW	FINISH MESSAGE
002020					26700	*			
002021	0681	0200		T	26710	.1	BL	.2	NONE FOUND
002022	0682	D801			26720		LDR	R5,B1	PUT UNWANTED BLOCK BACK
002023	0683	0063			26730		QOH		
002024	0684	0680	08FC		26740		BCF	NETERR	HANDLE FUNNY MACHINE
002025					26750	*			
002026	0686	8DD7			26760	.2	CMN	=B7	IS THERE A USER BLOCK TO WORK WITH
002027	0687	0906			26770		BE	\$SENDRR	NOPE
002028	0683	8847	0008		26780		LBF	B7+DEVFGS,QMFLSH	QUALIFIED MESSAGES ARE FLUSHED
	068A	0020							
002029	068B	0500	05CD		26790		BBT	XNETOE	RETRY WHOLE MESS IF FLUSH WAS SET
002030					26800	*			
002031					26810	*			
002032					26820	*CHECK IF PACKET CONFIRMATION NEED BE SENT			
002033					26830	*			
002034	068D	ACC4	003F		26840	SENDRR	LDB	B2,B4+NETUSR	CHECK IF ABLE TO CONFIRM BLOCKS
002035	068F	D380	074A		26850		LNJ	B5,UCKRPS	ANYTHING TO CONFIRM?
002036	0691	0580		T	26860		BBF	.1	NO
002037	0692	82C2	0001		26870		LB	B2+NETFGS,DTEHNG	ARE STILL HUNG ON LAST BATCH
	0694	4000							
002038	0695	0583			26880		BBF	\$SNDRRX	NOPE -- ACKNOWLEDGE BLOCKS
002039					26890	*			
002040	0696	8380	058D		26900	.1	JMP	XNETOL	LOOP FOR ANOTHER USER
002041					26910	*			
002042	0693	D380	0752		26920	SNDRRX	LNJ	B5,UPDRPS	UPDATE RECEIVE SEQUENCE
002043	069A	5E01			26930		ADV	R5,\$X25RR	ALWAYS RESPOND WITH RECEIVE READY
002044	0693	D380	0815		26940		LNJ	B5,BLDMSG	BUILD PROTOTYPE MESSAGE
002045	069D	8380	06FB		26950		JMP	XNETOX	RETURN (PRINT MONITORS)

002046				26960	/EJECT			
002047				26970	*			
002048				26980	*RESPOND BIT SET -- GENERATE CONTROL MESSAGE			
002049				26990	*			
002050	069F	A84C	003F	27000	XNETOR	LDR	R2,(B4+NETUSR)	BRANCH BASED ON MAJOR STATE
002051	06A1	A570	E000	27010		AND	R2,=X\$MODE	
002052	06A3	2013		27020		SCL	R2,3	
002053	06A4	ABA0	06A7	27030		LAB	B2,RSPTAB+R2	
002054	06A6	838A		27040		JMP	(B2)	CALL PROCESSOR
002055				27050	*			
002056	06A7	08FC		27060	RSPTAB	DC	<NETERR	0 -- READY (TOTALLY OFF)
002057	06A8	06AF		27070		DC	<RSPND1	1 -- DTE WAITING (SEND CALL REQUEST)
002058	06A9	06C0		27080		DC	<RSPND2	2 -- DCE WAITING (RESPOND TO CALL RQST)
002059	06AA	06C7		27090		DC	<RSPND3	3 -- DTE CLEARING
002060	06AB	06CF		27100		DC	<RSPND4	4 -- DCE CLEARING
002061	06AC	06D3		27110		DC	<RSPND5	5 -- INFORMATION TRANSFER (DTE)
002062	06AD	06D7		27120		DC	<RSPND6	6 -- INFORMATION TRANSFER (DCE)
002063	06AE	08FC		27130		DC	<NETERR	7 -- UNDEFINED
002064				27140	*			
002065	06AF	EB80	023E	27150	RSPND1	LAB	B6,WTGCLK	WHEN CONNECT SENT, SET 90 SECOND CLOCK
002066	06B1	D870	2A30	27160		LDR	R5,=ONESEC*90	
002067	06B3	D380	0786	27170		LNJ	B5,STOCLK	
002068	06B5	5C0B		27180		LDV	R5,\$X25CI	THEN SEND CALL REQUEST PACKET
002069	06B6	AB80	06DE	27190		LAB	B2,CRQMSG	COPY CALL REQUEST MESSAGE
002070	06B8	2C06		27200		LDV	R2,CRQMGL	
002071				27210	*			
002072	06B9	D380	0815	27220		LNJ	B5,BLDMSG	BUILD MESSAGE PROTOTYPE
002073	06BB	9857		27230		LDR	R1,R7	
002074	06BC	D380	0000	27240		LNJ	B5,MGCOPY	
002075	06BE	F851		27250		LDR	R7,R1	MOVE LENGTH ASIDE
002076	06BF	0F9D		27260		B	\$RSPNDX	THEN SEND AND EXIT
002077				27270	*			
002078	06C0	874C	003F	27280	RSPND2	CL	(B4+NETUSR)	ENTER INFORMATION TRANSFER STATE
002079	06C2	894C	003F	27290		LBT	(B4+NETUSR),X\$ITTX	
		06C4	A000					
002080	06C5	5C0F		27300		LDV	R5,\$X25CC	CONFIRM CALL
002081	06C6	0F8E		27310		B	\$RSPNDA	WITH NO ADDITIONAL INFORMATION
002082				27320	*			
002083	06C7	EB80	023E	27330	RSPND3	LAB	B6,WTGCLK	WHEN CLEAR SENT, SET 90 SECOND CLOCK
002084	06C9	D870	2A30	27340		LDR	R5,=ONESEC*90	
002085	06CB	D380	0786	27350		LNJ	B5,STOCLK	
002086	06CD	5C13		27360		LDV	R5,\$X25OI	THEN SEND CLEAR REQUEST PACKET
002087	06CE	0F8A		27370		B	\$RSPNDB	WITH ZERO BYTE FOLLOWING COMMAND
002088				27380	*			
002089	06CF	B380	07F9	27390	RSPND4	LNJ	B3,RLSMAP	GO READY WHEN CLEAR CONFIRMATION SENT
002090	06D1	5C17		27400		LDV	R5,\$X25OC	
002091	06D2	0F82		27410		B	\$RSPNDA	WITH NO ADDITIONAL DATA
002092				27420	*			
002093	06D3	5C27		27430	RSPND5	LDV	R5,\$X25IC	NOTHING SPECIAL WHEN INTERRUPT CONFIRMED
002094				27440	*			
002095	06D4	D380	0815	27450	RSPNDA	LNJ	B5,BLDMSG	BUILD PROTOTYPE MESSAGE
002096	06D6	0F86		27460		B	\$RSPNDX	THEN SEND AND EXIT

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002097			27470 *			
002098	06D7	5C23	27480 RSPND6	LDV	R5,\$X25II	NOTHING SPECIAL WHEN INTERRUPT SENT
002099			27490 *			
002100	06D8	D380 0815	27500 RSPNDB	LNJ	B5,BLDMSG	BUILD PROTOTYPE MESSAGE
002101	06DA	87DD	27510	CLH	POP B1+R1	WE DONT NEED ANY CAUSE
002102	06DB	8AD7	27520	INC	R7	INCREASE MESSAGE LENGTH
002103			27530 *			
002104	06DC	8380 06FB	27540 RSPNDX	JMP	XNETOX	RETURN (PRINT MONITORS)
002105			27550 *			
002106	06DE	0000	27560 CRQMSG	DC	Z'000000000000'	SIX BYTES OF NOTHING
	06DF	0000				
	06E0	0000				
002107		0006	27570 CRQMGL	EQU	6	

002108				27580	/EJECT			
002109				27590	*			
002110				27600	*IF FIRST PACKET OUT THEN SET CLOCK FOR CONFIRMATION			
002111				27610	*			
002112	06E1	9FC4	0034	27620	XNETOW	STB	B1,B4+MSGBUF	SAVE BUFFER ADDRESS/LENGTH
002113	06E3	FF44	0036	27630		STR	R7,B4+MSGLEN	
002114	06E5	E380	076C	27640		LNJ	B6,UPDSPS	CREATE <I> WITH PACKETS ROTATED
002115				27650	*			
002116	06E7	E84C	003F	27660		LDR	R6,(B4+NETUSR)	WORK WITH CONTROL BITS
002117	06E9	1C06		27670		LDV	R1,2+HDRLEN-1	POINT AT NETWORK COMMAND
002118	06EA	D791		27680		STH	R5,B1+R1	SAVE ACTUAL COMMAND
002119	06EB	DF44	003A	27690		STR	R5,B4+COMAND	SAVE COMMAND FOR TRACE
002120				27700	*			
002121	06ED	6EFF		27710		ADV	R6,-DTEPSI	CHECK PACKET COUNT
002122	06EE	82D6		27720		LB	R6,DTEPSC	FOR OTHERS OUTSTANDING
	06EF	0003						
002123	06F0	0500	T	27730		BBT	.1	YES -- CLOCK SET ALREADY
002124				27740	*			
002125	06F1	EB80	023E	27750		LAB	B6,WTGCLK	WINDOW MUST MOVE WITHIN THREE MINUTES
002126	06F3	D870	5460	27760		LDR	R5,=ONESEC*180	
002127	06F5	D380	0786	27770		LNJ	B5,STOCLK	
002128				27780	*			
002129	06F7	9CC4	0034	27790	.1	LDB	B1,B4+MSGBUF	RESTORE BUFFER ADDRESS/LENGTH
002130	06F9	F844	0036	27800		LDR	R7,B4+MSGLEN	
002131				27810	*FALL THROUGH TO RETURN...PRINT MONITORS			

002132					27820	/EJECT			
002133					27830	*			
002134					27840	*ADD MESSAGE TO OUTPUT QUEUE, PRINT TRACE IF APPLICABLE			
002135					27850	*			
002136	06FB	ACD1			27860	XNETOX	LDB	B2,=B1	MOVE BUFFER ADDRESS ASIDE
002137	06FC	9CC4	0029		27870		LDB	B1,B4+OMSGLB	ADD INTO CHAIN
002138	06FE	9844	002A		27880		LDR	R1,B4+OMSGLP	
002139	0700	AF91			27890		STB	B2,B1+R1	
002140	0701	E811			27900		LDR	R6,B1+R1	SAVE BUFFER ADDRESS
002141	0702	E380	0000	X	27910		LNJ	B6,PWORDG	
002142	0704	E857			27920		LDR	R6,R7	SAVE MESSAGE LENGTH
002143	0705	EF44	0036		27930		STR	R6,B4+MSGLEN	
002144	0707	E380	0000	X	27940		LNJ	B6,PWORDG	
002145					27950	*			
002146	0709	8E70	0083		27960		LEV	=\$LVDIS+HANGLV	FREEZE WHILE WE UPDATE CHAIN
002147	070B	9FC4	0029		27970		STB	B1,B4+OMSGLB	UPDATE STOPPING POINT
002148	070D	9F44	002A		27980		STR	R1,B4+OMSGLP	
002149	070F	8844	0008		27990		LBF	B4+DEVFGS,TSKSNT	NO LONGER A TASK TO CREATE OUTPUT
	0711	0020							
002150	0712	8E70	803F		28000		LEV	=\$LVEXI	RETURN TO NETWORK LEVEL
002151					28010	*			
002152	0714	EB80	0542		28020		LAB	B6,XNTCBK	ATTEMPT A CALLBACK
002153	0716	D844	0009		28030		LDR	R5,B4+TSKINF	
002154	0718	FC04			28040		LDB	B7,=B4	
002155	0719	B380	0000	X	28050		LNJ	B3,BLDTSK	WAKE DEVICE UP
002156					28060	*			
002157	071B	E804			28070		LDR	R6,B4	ARE WE MONITORING THE NETWORK
002158	071C	E900	0000	X	28080		CMR	R6,MONNET	
002159	071E	0900		T	28090		BE	.1	YES -- SEND MESSAGE
002160	071F	6C7F			28100		LDV	R6,'7F'	
002161	0720	E544	0039		28110		AND	R6,B4+ADDRSS	ARE WE MONITORING CERTAIN NETWORK LINE
002162	0722	E404			28120		OR	R6,B4	
002163	0723	E900	0000	X	28130		CMR	R6,MONNET	
002164	0725	0980		T	28140		BNE	.3	NOPE -- SKIP MONITORS
002165					28150	*			
002166	0726	D380	0000	X	28160	.1	LNJ	B5,MGSTRT	START MONITOR MESSAGE
002167					28170	*			
002168	0728	E804			28180		LDR	R6,B4	PRINT NETWORK ADDRESS
002169	0729	D380	0000	X	28190		LNJ	B5,MGHEX	
002170	072B	D380	0000	X	28200		LNJ	B5,MGCHAR	
002171	072D	002D			28210		DC	\$ASCDS	
002172					28220	*			
002173	072E	E844	0039		28230		LDR	R6,B4+ADDRSS	PRINT SUPPLIED ADDRESS
002174	0730	D380	0000	X	28240		LNJ	B5,MGHEX	
002175	0732	D380	0000	X	28250		LNJ	B5,MGCHAR	SEPARATE DATUM
002176	0734	532F			28260		DC	\$ASCS*Z'0100'+\$ASCFS	
002177					28270	*			
002178	0735	E844	003A		28280		LDR	R6,B4+COMAND	SPIT COMMAND OUT
002179	0737	D380	0000	X	28290		LNJ	B5,MGHEXH	
002180	0739	D380	0000	X	28300		LNJ	B5,MGCHAR	SPACE ONCE
002181	073B	0020			28310		DC	\$ASCSP	
002182					28320	*			



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002183 073C E844 0036  
 002184 073E 6EFB  
 002185 073F 6900  
 002186 0740 D380 0000  
 002187  
 002188 0742 D380 0000  
 002189  
 002190 0744 E844 0037  
 002191 0746 EF44 0038  
 002192 0748 8380 0000

T  
 X  
  
 X  
  
  
 X

28330  
 28340  
 28350  
 28360  
 28370 \*  
 28380 .2  
 28390 \*  
 28400 .3  
 28410  
 28420

LDR  
 ADV  
 BEZ  
 LNJ  
  
 LNJ  
  
 LDR  
 STR  
 JMP

R6,B4+MSGLEN  
 R6,-HDRLN  
 R6,.2  
 B5,MGHEX  
  
 B5,MGSEND  
  
 R6,B4+SVCUSR  
 R6,B4+LSTUSR  
 SMCPXT

TEST WHETHER DATA EXISTS  
 NOPE -- SEND MESSAGE  
  
 FORCE MESSAGE  
  
 SET STOPPING POINT  
 GO TO SLEEP UNTIL SOMETHING ELSE HAPPENS

002193			28430	/EJECT				
002194			28440	*				
002195			28450	*ROUTINE TO ROTATE RECEIVED PACKET SEQUENCE COUNT				
002196			28460	*				
002197	074A	E842	0001	28470	UCKRPS	LDR	R6,B2+NETFGS	CHECK IF PACKETS REMAIN TO BE CONFIRMED
002198	074C	6043		28480		SOR	R6,3	
002199	074D	E642	0001	28490		XOR	R6,B2+NETFGS	
002200	074F	82D6		28500		LB	R6,DCEPSF	ANY IN WINDOW LIT?
		0750	0007					
002201	0751	8385		28510		JMP	B5	RETURN I(B) TRUE IF CONFIRMATION NEEDED
002202				28520	*			
002203	0752	C842	0001	28530	UPDRPS	LDR	R4,B2+NETFGS	EXAMINE DCE CONTROL BITS
002204	0754	E854		28540		LDR	R6,R4	
002205	0755	70C3		28550		DOR	R7,3	MOVE MAX/COUNT DOWN
002206	0756	704D		28560		SOR	R7,16-3	
002207	0757	E257		28570		SUB	R6,R7	COMPUTE AMOUNT TO CONFIRM
002208	0758	70C3		28580		DOR	R7,3	
002209	0759	704D		28590		SOR	R7,16-3	
002210	075A	E854		28600		LDR	R6,R4	POSITION OLD PACKET COUNT
002211	075B	6046		28610		SOR	R6,6	
002212	075C	EA57		28620		ADD	R6,R7	
002213				28630	*			
002214	075D	6003		28640		SOL	R6,3	STORE NEW VALUES
002215	075E	F854		28650		LDR	R7,R4	
002216	075F	700A		28660		SOL	R7,16-6	
002217	0760	7083		28670		DOL	R7,3	
002218	0761	E654		28680		XOR	R6,R4	
002219	0762	F570	01C7	28690		AND	R6,=DCEPSN+DCEPSF	
002220	0764	C656		28700		XOR	R4,R6	
002221	0765	CF42	0001	28710		STR	R4,B2+NETFGS	SAVE NEW VALUES
002222				28720	*			
002223	0767	D854		28730		LDR	R5,R4	RETURN WITH <R5> BITS 8,7,6 = CONFIRM COUNT
002224	0768	D570	01C0	28740		AND	R5,=DCEPSN	
002225	076A	5041		28750		SOR	R5,6-5	
002226	076B	8385		28760		JMP	B5	

002227					28770	/EJECT			
002228					28780	*			
002229					28790	*ROUTINE TO BUILD <I> MESSAGE HEADER			
002230					28800	*			
002231	076C	ACC4	003F		28810	UPDSPS	LDB	B2,B4+NETUSR	IF WERE HUNG..DONT CONFIRM PACKETS
002232	076E	82C2	0001		28820		LB	B2+NETFGS,DTEHNG	
		0770	4000						
002233	0771	0500		T	28830		BBT	.1	
002234	0772	D380	0752		28840		LNJ	B5,UPDRPS	ELSE UPDATE RECEIVE PACKET SEQUENCE
002235	0774	0F80		T	28850		B	.2	
002236					28860	*			
002237	0775	D842	0001		28870	.1	LDR	R5,B2+NETFGS	RETURN LAST CONFIRMATION COUNT
002238	0777	D570	01C0		28880		AND	R5,=DCEPSN	
002239	0779	5041			28890		SOR	R5,6-5	
002240					28900	*			
002241	077A	E802			28910	.2	LDR	R6,B2	ADD AND COMPUTE OUR PACKET COUNT
002242	077B	6E01			28920		ADV	R6,DTEPSI	ONE MORE
002243	077C	EF02			28930		STR	R6,B2	
002244					28940	*			
002245	077D	70C2			28950		DOR	R7,2	MOVE OLD COUNT AND NUMBER DOWN
002246	077E	704E			28960		SOR	R7,16-2	
002247	077F	88D7			28970		DEC	R7	LESS ONE FOR OUR CURRENT MESSAGE
002248	0780	EA57			28980		ADD	R6,R7	
002249					28990	*			
002250	0781	6001			29000		SOL	R6,1	POSITION FOR COMMAND
002251	0782	E570	000E		29010		AND	R6,'000E'	
002252	0784	D456			29020		OR	R5,R6	BUILD FINAL <I> COMMAND
002253	0785	8386			29030		JMP	B6	

002254				29040	/EJECT				
002255				29050	*				
002256				29060	*START TIMEOUT / RESPONSE CLOCK				
002257				29070	*				
002258	0786	FCC4	003F	29080	STOCLK	LDB	B7,B4+NETUSR		THESE CLOCKS WORK WITH MAP BLOCK
002259	0788	ABC7	0002	29090		LAB	B2,B7+TOCLOK		POINT AT CLOCK BEING SET
002260	078A	0F80		29100		B	.1		
002261				29110	*				
002262	078E	FCC4	003F	29120	.SRRCLK	LDB	B7,B4+NETUSR		THESE CLOCKS WORK WITH MAP BLOCK
002263	078D	ABC7	0003	29130		LAB	B2,B7+RRCLOK		POINT AT CLOCK BEING SET
002264				29140	*				
002265	078F	8D82		29150	.1	CMN	B2		MUST NOT BE ANOTHER CLOCK RUNNING
002266	0790	0980	08FC	29160		BNE	NETERR		
002267	0792	9CD5		29170		LDB	B1,=B5		SET RETURN ASIDE
002268	0793	D380	0000	29180		LNJ	B5,ADDCLK		ADD OUR OWN LITTLE CLOCK
002269	0795	BF32		29190		STB	B3,B2		SAVE CLOCK ELEMENT IN MAP BLOCK
002270	0796	8381		29200		JMP	B1		RETURN WITH CLOCK SETUP
002271				29210	*				
002272				29220	*KILL TIMEOUT / RESPONSE CLOCK				
002273				29230	*				
002274	0797	FCC4	003F	29240	KTOCLK	LDB	B7,B4+NETUSR		THESE CLOCKS WORK WITH MAP BLOCK
002275	0799	ABC7	0002	29250		LAB	B2,B7+TOCLOK		POINT AT CLOCK BEING KILLED
002276	079B	0F80		29260		B	.1		
002277				29270	*				
002278	079C	FCC4	003F	29280	.KRRCLK	LDB	B7,B4+NETUSR		THESE CLOCKS WORK WITH MAP BLOCK
002279	079E	ABC7	0003	29290		LAB	B2,B7+RRCLOK		POINT AT CLOCK BEING KILLED
002280				29300	*				
002281	07A0	9C80	08FB	29310	.1	LDB	B1,ZERO		LOAD AND RESET CLOCK BLOCK
002282	07A2	9E82		29320		SWB	B1,B2		
002283	07A3	8DD1		29330		CMN	=B1		WAS THERE A CLOCK
002284	07A4	0900		29340		BE	.2		NO
002285	07A5	ECC1	0006	29350		LDB	B6,B1+RWORD		LOAD RETURN ADDRESS
002286	07A7	8380	0000	29360		JMP	KILCLK		RESET CLOCK AND RETURN
002287				29370	*				
002288	07A9	8383		29380	.2	JMP	B3		RETURN WITHOUT KILLING CLOCK
002289				29390	*				
002290				29400	*POP TIMEOUT / RESPONSE CLOCKS				
002291				29410	*				
002292	07AA	ABC7	0002	29420	PTOCLK	LAB	B2,B7+TOCLOK		POINT TO CLOCK BEING POPPED
002293	07AC	0F80		29430		B	.1		
002294				29440	*				
002295	07AD	ABC7	0003	29450	.PRRCLK	LAB	B2,B7+RRCLOK		POINT TO CLOCK BEING POPPED
002296				29460	*				
002297	07AF	8D82		29470	.1	CMN	B2		CLOCK MUST NOT BE RESET
002298	07B0	0900	08FC	29480		BE	NETERR		CLEAR WITHOUT KILL
002299	07B2	8702		29490		CL	B2		RESET CLOCK CELL
002300	07B3	CCC7	0004	29500		LDB	B4,B7+NETBLK		RESTORE NETWORK DEVICE BLOCK
002301	07B5	D847	0005	29510		LDR	R5,B7+NETADR		SAVE VIRTUAL ADDRESS
002302	07B7	DF44	0039	29520		STR	R5,B4+ADDRSS		
002303	07B9	FFC4	003F	29530		STB	B7,B4+NETUSR		SAVE USER POINTER
002304	07BB	8385		29540		JMP	B5		

002305				29550	/EJECT			
002306				29560	*			
002307				29570	*ROUTINE TO CLEAR STACKED MESSAGES FOR USER			
002308				29580	*			
002309	07BC	4C7F		29590	CLRUSR	LDR	R4,'7F'	BUILD FINAL ADDRESS
002310	07BD	C544	0039	29600		AND	R4,B4+ADDRSS	
002311	07BF	C404		29610		OR	R4,B4	
002312				29620	*			
002313	07C0	ABC4	0005	29630	.1	LAB	B2,B4+OUTQ	FIND AND CLEAR STACKED CONTROLS
002314	07C2	D854		29640		LDR	R5,R4	
002315	07C3	0062		29650		DQH		
002316	07C4	0680	08FC	29660		BCF	NETERR	HANDLE FUNNY MACHINE
002317	07C6	0200		29670		BL	.3	
002318	07C7	0980		29680		BNE	.2	PUT BACK AND CONTINUE
002319	07C8	BCC1	0004	29690		LDB	B3,B1+UWORD	GET DATA ADDRESS
002320	07CA	BF81		29700		STB	B3,B1	LINKEM
002321	07CB	E380	0000	29710		LNJ	B6,FRBLKS	
002322	07CD	OFF3		29720		B	.1	
002323				29730	*			
002324	07CE	D801		29740	.2	LDR	R5,B1	PUT BLOCK BACK
002325	07CF	0063		29750		QOH		
002326	07D0	0680	08FC	29760		BCF	NETERR	HANDLE FUNNY MACHINE
002327				29770	*			
002328	07D2	ABC4	003C	29780	.3	LAB	B2,B4+CONQ	FIND CONNECT BLOCK
002329	07D4	D854		29790		LDR	R5,R4	
002330	07D5	0062		29800		DQH		
002331	07D6	0680	08FC	29810		BCF	NETERR	HANDLE FUNNY MACHINE
002332	07D8	0200		29820		BL	.5	
002333	07D9	0900		29830		BE	.4	IF FOUND THEN RELEASE
002334	07DA	D801		29840		LDR	R5,B1	PUT BLOCK BACK
002335	07DB	0063		29850		QOH		
002336	07DC	0680	08FC	29860		BCF	NETERR	HANDLE FUNNY MACHINE
002337	07DE	OFFA		29870		B	.5	
002338				29880	*			
002339	07DF	BCC1	0004	29890	.4	LDB	B3,B1+UWORD	GET DATA ADDRESS
002340	07E1	BF81		29900		STB	B3,B1	LINKEM
002341	07E2	E380	0000	29910		LNJ	B6,FRBLKS	
002342				29920	*			
002343	07E4	8385		29930	.5	JMP	B5	RETURN HAVING DELETED ALL SPECIAL STORAGE

002344					29940	/EJECT			
002345					29950	*			
002346					29960	*BUILD MAP ENTRY (FILLED IN)			
002347					29970	*			
002348	07E5	B380	0000	X	29980	BLDMAP	LNJ	B3,GETBLK	BUILD MAP BLOCK
002349					29990	*			
002350	07E7	BFC4	003F		30000	BLDMPX	STB	B3,B4+NETUSR	SAVE AS USERS MAP
002351	07E9	BFA2			30010		STB	B3,B2+R2	SAVE IN MAP
002352	07EA	8703			30020		CL	B3	RESET NETWORK FLAGS
002353	07EB	8743	0001		30030		CL	B3+NETFGS	
002354	07ED	8943	0001		30040		LBT	B3+NETFGS,DCEPXX	INITIAL DCE PACKET COUNTERS
	07EF	0012							
002355	07F0	CFC3	0004		30050		STB	B4,B3+NETBLK	RETAIN NETWORK CONTROL BLOCK
002356	07F2	AF43	0005		30060		STR	R2,B3+NETADR	RETAIN ADDRESS
002357	07F4	8743	0002		30070		CL	B3+TOCLOCK	RESET TIMEOUT CLOCK
002358	07F6	8743	0003		30080		CL	B3+RRCLOCK	RESET RECEIVE RESPONSE CLOCK
002359	07F8	8385			30090		JMP	B5	
002360					30100	*			
002361					30110	*			
002362					30120	*RELEASE NETWORK MAP BLOCK			
002363					30130	*			
002364	07F9	ACC4	000E		30140	RLSMAP	LDB	B2,B4+NETMAP	FIND AND ZERO MAP LOCATION
002365	07FB	2C7F			30150		LDV	R2,'7F'	
002366	07FC	A544	0039		30160		AND	R2,B4+ADDRSS	
002367	07FE	9C80	08FB		30170		LDB	B1,ZERO	
002368	0800	9EA2			30180		SWB	B1,B2+R2	
002369	0801	8380	0000	X	30190		JMP	RELBLK	RELEASE AND RETURN INDIRECTLY

002370					30200	/EJECT			
002371					30210	*			
002372					30220	*ADD MESSAGE TO QUEUE			
002373					30230	*			
002374	0803	B380	0000	X	30240	ADMSGQ	LNJ	B3,GETBLK	GET QUEUE ELEMENT
002375	0805	9FC3	0004		30250		STB	B1,B3+UWORD	SAVE BUFFER
002376	0807	9F43	0007		30260		STR	R1,B3+RWORD+1	AND POINTER
002377	0809	FF43	0006		30270		STR	R7,B3+RWORD	AND LENGTH
002378	080B	5C7F			30280		LDV	R5,'7F'	BUILD QUEUEING VALUE
002379	080C	D544	0039		30290		AND	R5,B4+ADDRSS	
002380	080E	D404			30300		OR	R5,B4	
002381	080F	BED1			30310		SWB	B3,=B1	
002382	0810	0061			30320		QOT		ADD MESSAGE TO SUPPLIED QUEUE
002383	0811	0680	08FC		30330		BCF	NETERR	HANDLE FUNNY MACHINE
002384	0813	9ED3			30340		SWB	B1,=B3	
002385	0814	8385			30350		JMP	B5	RETURN WITH MESSAGE QUEUED
002386					30360	*			
002387					30370	*			
002388					30380	*BUILD MESSAGE			
002389					30390	*			
002390	0815	E380	0000	X	30400	BLDMSG	LNJ	B6,GFBBLK	PREP A CHAIN
002391	0817	7C05			30410		LDV	R7,HDRLN	RETURN LENGTH OF PROTOTYPE
002392	0818	87DD			30420		CLH	POP B1+R1	SAVE ROOM FOR ADR
002393	0819	87DD			30430		CLH	POP B1+R1	SAVE ROOM FOR CMD
002394					30440	*			
002395	081A	6C7F			30450		LDV	R6,'7F'	BUILD ADDRESS
002396	081B	E544	0039		30460		AND	R6,B4+ADDRSS	
002397	081D	E470	1000		30470		OR	R6,'1000'	TURN GENERAL ID ON
002398	081F	5880		T	30480		BGEZ	R5,.1	IF NOTED AS DATA QUALIFIED THEN SET BIT
002399	0820	E470	8000		30490		OR	R6,'8000'	TURN QUALIFIER BIT ON
002400					30500	*			
002401	0822	EF44	0039		30510	.1	STR	R6,B4+ADDRSS	SAVE FINAL ADDRESS (FOR TRACE)
002402	0824	6058			30520		SCR	R6,8	STORE MSB OF ADDRESS
002403	0825	E7DD			30530		STH	R6,POP B1+R1	
002404	0826	6058			30540		SCR	R6,8	STORE LSB OF ADDRESS
002405	0827	E7DD			30550		STH	R6,POP B1+R1	
002406	0828	D7DD			30560		STH	R5,POP B1+R1	SAVE NETWORK COMMAND
002407	0829	DF44	003A		30570		STR	R5,B4+COMAND	SAVE COMMAND (FOR TRACE)
002408	082B	8385			30580		JMP	B5	

002409					30590	/EJECT			
002410					30600	*			
002411					30610	*EVERY SLAVE PROCESS HAS TERMINATED (GO OFFLINE)			
002412					30620	*			
002413	082C	8847	0008		30630	TSKOFF	LBF	B7+DEVFGS,SONOFF	FORCE OFFLINE
	082E	8000							
002414	082F	0505			30640		BBT	\$TSKCBK	CHECK IF CALLBACK REQUIRED
002415	0830	9CD7			30650		LDB	B1,=B7	
002416	0831	B380	0000	X	30660		LNJ	B3,FNETBK	FREE NETWORK USER BLOCK
002417	0833	0F8C			30670		B	\$TSKXIT	THEN WAIT
002418					30680	*			
002419					30690	*			
002420					30700	*ATTEMPT TO WAKE PROTOCOL IF WE ARE IDLED			
002421					30710	*			
002422	0834	CCC7	000F		30720	TSKCBK	LDB	B4,B7+HOSTNT	CHECK IF NETWORK IDLE
002423	0836	8380	0560		30730		JMP	XNETOM	ATTEMPT TO FILL OUTPUT REQUEST (IF ANY)
002424					30740	*			
002425					30750	*			
002426					30760	*START OUTPUT			
002427					30770	*			
002428	0838	82C7	0008		30780	TSKSRO	LB	B7+DEVFGS,SONOFF	ARE WE OFFLINE?
	083A	8000							
002429	083B	0579			30790		BBT	\$TSKCBK	NO -- ATTEMPT CALLBACK
002430	083C	CCD7			30800		LDB	B4,=B7	ADJUST REGISTERS
002431	083D	D380	0000	X	30810		LNJ	B5,DEVKOT	KILL OUTPUT
002432					30820	*			
002433	083F	8380	0000	X	30830	TSKXIT	JMP	SMCPXT	MUST NOT EXIT OURSELVES
002434					30840	*			
002435					30850	*			
002436					30860	*STOP INPUT			
002437					30870	*			
002438	0841	82C7	0008		30880	TSKSTI	LB	B7+DEVFGS,SONOFF	ARE WE OFFLINE?
	0843	8000							
002439	0844	05FB			30890		BBF	\$TSKXIT	YES -- SIMPLY IGNORE
002440	0845	CCD7			30900		LDB	B4,=B7	ADJUST REGISTERS
002441	0846	D380	0000	X	30910		LNJ	B5,DVKINP	RESET INPUT AND QUEUE RETURN
002442					30920	*			
002443	0848	FCD4			30930		LDB	B7,=B4	ADJUST REGISTERS
002444	0849	2C7F			30940		LDV	R2,'7F'	RESET HUNG STATE IF IT EXISTS
002445	084A	A504			30950		AND	R2,B4	
002446	084B	CCC4	000F		30960		LDB	B4,B4+HOSTNT	RESTORE NETWORK BLOCK
002447	084D	ACC4	000E		30970		LDB	B2,B4+NETMAP	
002448	084F	ACA2			30980		LDB	B2,B2+R2	USE USERS MAP
002449	0850	8842	0001		30990		LBF	B2+NETFGS,DTEHNG	FREE HANG
	0852	4000							
002450	0853	0561			31000		BBT	\$TSKCBK	CALL BACK IF HUNG
002451	0854	0FEB			31010		B	\$TSKXIT	ELSE JUST WAIT



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002452  
002453  
002454  
002455  
002456  
002457  
002458  
002459 0855 8380 083F

31020 /EJECT  
31030 \*  
31040 \*PROCESS MODE SETTINGS FOR X25 NETWORK USERS  
31050 \*  
31060 \* <R3> = MODE COMMAND  
31070 \* <R6> = MODE SETTING  
31080 \*  
31090 NETMDS JMP TSKXIT

FOR NOW JUST IGNORE THEM

002460				31100	/EJECT			
002461				31110	*			
002462				31120	*ROUTINE TO CREATE AN OUTBOUND CONNECTION ON A NETWORK			
002463				31130	*			
002464	0857	3C10		31140	NETSET	LDV	R3,NETBKL	ASSUME WE WILL SUCCEED...GET SOME MEMORY
002465	0858	B380	0000	31150		LNJ	B3,GETMEM	
002466	085A	83C5	0000	31160		JMP	B5+0	IF NO MEMORY THEN RETURN IMMEDIATELY
002467	085C	EC03		31170		LDB	B6,=B3	SAVE DEVICE BLOCK ASIDE
002468	085D	B380	0000	31180		LNJ	B3,GETBLK	HAVE MAP ENTRY READY
002469	085F	DF86		31190		STB	B5,B6	SAVE USERS RETURN
002470	0860	8D43	0006	31200		SDI	B3+NTINFO	SAVE CONNECT INFORMATION
002471				31210	*			
002472	0862	8E70	0083	31220		LEV	=\$LVDIS+HANGLV	FREEZE WHILE WE FIND PORT TO CONNECT TO
002473	0864	E855		31230		LDR	R6,R5	SAVE PORT ADDRESS ASIDE
002474	0865	AB80	0900	31240		LAB	B2,NETQ	LOOK UP PORT IN NETWORK QUEUE
002475	0867	0062		31250		DQH		
002476	0868	0680	08FC	31260		BCF	NETERR	HANDLE FUNNY MACHINE
002477	086A	0200		31270		BL	.2	
002478	086B	D801		31280		LDR	R5,B1	PUT NETWORK BLOCK BACK
002479	086C	0063		31290		QOH		
002480	086D	0680	08FC	31300		HCF	NETERR	HANDLE FUNNY MACHINE
002481	086F	D956		31310		CMR	R5,R6	DID WE MATCH
002482	0870	09FA		31320		BNE	.2	
002483				31330	*			
002484	0871	82C1	0008	31340		LB	B1+DEVFGS,SONOFF	ARE WE AN ONLINE JOBBY
	0873	8000						
002485	0874	05FC		31350		BBF	.2	NOPE
002486	0875	82C1	0011	31360		LB	B1+PFLAGS,X25PCL	MUST BE X25 STYLE PROTOCOL
	0877	0200						
002487	0878	05FC		31370		BBF	.2	ARENT
002488	0879	CC01		31380		LDB	B4,=B1	WORK AS IF WE WERE NETWORK
002489	087A	ACC4	000E	31390		LDB	B2,B4+NETMAP	HAVE MAP HANDY
002490				31400	*			
002491	087C	8752		31410		CL	R2	ASSUME WE ARE OUTBOUND NETWORK
002492	087D	E870	0080	31420		LDR	R6,=128	STOP AFTER HIGHEST NUMBERED PORT
002493	087F	7C01		31430		LDV	R7,1	INCREASE EACH TIME
002494	0880	82C4	0011	31440		LB	B4+PFLAGS,DCEDTE	ARE WE INFAC T AN OUTBOUND NETWORK?
	0882	0004						
002495	0883	0500		31450		BBT	.1	YES -- START IN
002496	0884	AE56		31460		SWR	R2,R6	SWAP STARTING...ENDING POINTS
002497	0885	8257		31470		NEG	R7	REVERSE DIRECTION
002498				31480	*			
002499	0886	AA57		31490	.1	ADD	R2,R7	CHECK NEXT
002500	0837	A956		31500		CMR	R2,R6	STOPPING POINT?
002501	0888	0970		31510		BE	.2	YES -- NO SLOTS LEFT TO FILL
002502	0889	8DA2		31520		CMN	B2+R2	ANY USER AT THIS SPOT
002503	088A	09FC		31530		BNE	.1	YES -- TRY AGAIN
002504				31540	*			
002505	088B	AF44	0039	31550		STR	R2,B4+ADDRSS	SAVE STOPPING SLOT
002506	088D	D380	07E7	31560		LNJ	B5,BLMPX	FINISH BUILDING MPX
002507	088F	8903		31570		LBT	B3,X\$TWTG+RSPOND	ATTEMPT CONNECTION
	0890	3000						

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002508	0891	BCD6		31580	LDB	B3,=B6	NOW PREPARE NETWORK DEVICE BLOCK
002509	0892	EC83		31590	LDB	B6,B3	RESTORE USERS RETURN
002510	0893	9B80	08AB	31600	LAB	B1,NDPTSK	USE SPECIAL NODEPOINT TASKS
002511	0895	D380	0000	31610	LNJ	B5,NETCNX	PREPARE NETWORK CONNECT BLOCK
002512	0897	8380	08FC	31620	JMP	NETERR	HANDLE ERRONEOUS RETURN
002513				31630	*		
002514	0899	8944	0008	31640	LBT	B4+DEVFGS,SONOFF+DCRDTA	START ONLINE -- DISCARDING DATA
	089B	8040					
002515	089C	8E70	803F	31650	LEV	=\$LVEXI	RETURN TO USERS LEVEL
002516	089E	83C6	0002	31660	JMP	B6+2	RETURN WITH NETWORK PROCESSING
002517				31670	*		
002518	08A0	8E70	803F	31680	.2	LEV	=\$LVEXI
002519	08A2	9CD3		31690	LDB	B1,=B3	RELEASE PROPOSED NETWORK MAP BLOCK
002520	08A3	B380	0000	31700	LNJ	B3,RELBLK	
002521	08A5	9CD6		31710	LDB	B1,=B6	RELEASE NETWORK DEVICE BLOCK
002522	08A6	A8C1	0016	31720	LAB	B2,B1+NETBKL+7-1	
002523	08A8	B380	0000	31730	LNJ	B3,RELMEM	
002524	08AA	8385		31740	JMP	B5	GIVE UNSUCCESSFUL SETUP RETURN
002525				31750	*		
002526	08AB	0030		31760	NDPTSK	DC	LEVEL TO RETURN X25 VIRTUALS TO
002527	08AC	0838		31770		DC	START OUTPUT
002528	08AD	0000		31780		DC	START INPUT (IGNORED)
002529	08AE	0841		31790		DC	STOP INPUT (AND COME UNHUNG)
002530	08AF	082C		31800		DC	LAST PROCESS CLEARED -- DISCONNECT
002531	08B0	0834		31810		DC	MODES -- INVOKE CALLBACK

002532				31820	/EJECT		
002533				31830	*		
002534				31840	*NETWORK ONLINE CHECK		
002535				31850	*		
002536				31860	*THIS ROUTINE IS CALLED BY SLAVE PROCESS WHICH WISHES TO		
002537				31870	*ASCERTAIN STATUS OF NETWORK CONNECTION.		
002538				31880	*		
002539				31890	*IF DEVICE IS ONLINE AND IN INFORMATION TRANSFER STATE WE RETURN		
002540				31900	* +1 ELSE WE RETURN (+0)		
002541				31910	*		
002542	08B1	CC87		31920	NETONL	LDB	B4,B7
002543	08B2	2C7F		31930		LDV	R2,'7F'
002544	08B3	A504		31940		AND	R2,B4
002545	08B4	8E70	0083	31950		LEV	=\$LVDIS+HANGLV
002546	08B6	82C4	0008	31960		LB	B4+DEVFGS,SONOFF
	03B8	8000					
002547	08B9	0580		31970		BBF	.1
002548	08BA	ACC4	000F	31980		LDB	B2,B4+HOSTNT
002549	08BC	ACC2	000E	31990		LDB	B2,B2+NETMAP
002550	08BE	ACA2		32000		LDB	B2,B2+R2
002551	08BF	A802		32010		LDR	R2,B2
002552	08C0	A570	E000	32020		AND	R2,=X\$MODE
002553	08C2	A970	C000	32030		CMR	R2,=X\$ICTX
002554	08C4	09F5		32040		BNE	.1
002555	08C5	8E70	803F	32050		LEV	=\$LVEXI
002556	08C7	83C5	0001	32060		JMP	B5+1
002557				32070	*		
002558	08C9	DC85		32080	.1	LDB	B5,B5
002559	08CA	0FAB		32090		B	\$NETRTN

002560			32100	/EJECT		
002561			32110	*		
002562			32120	*THIS ROUTINE WILL RESET THE HANG FLAG AND GENERATE A CALLBACK		
002563			32130	*		
002564			32140	*THE SLAVE INVOKES THIS ROUTINE INHIBITED..WE RETURN UNINHIBITED		
002565			32150	*		
002566	08CB	CC87	32160	NETRDY	LDB	B4,B7
002567	08CC	82C4 0008	32170		LB	B4+DEVFGS,SONOFF
	03CE	8000				
002568	08CF	058C	32180		BBF	\$NETRTX
002569	08D0	2C7F	32190		LDV	R2,'7F'
002570	08D1	A504	32200		AND	R2,B4
002571	08D2	ACC4 000F	32210		LDB	B2,B4+HOSTNT
002572	08D4	ACC2 000E	32220		LDB	B2,B2+NETMAP
002573	08D6	ACA2	32230		LDB	B2,B2+R2
002574	08D7	8842 0001	32240		LBF	B2+NETFGS,DTEHNG
	08D9	4000				
002575	08DA	051B	32250		BBT	\$NETRTN
002576			32260	*		
002577	08DB	8E70 803F	32270	NETRTX	LEV	=\$LVEXI
002578	08DD	8385	32280		JMP	B5

WORK WITH DEVICE BLOCK  
ON/OFFLINE

OFFLINE -- NOTHING TO DO  
CREATE INDICIE

WORK THROUGH NETWORK BLOCK  
CHECK MAP

NO LONGER HUNG

IF WE WERE HUNG -- WAKE PCL

RETURN TO USERS LEVEL  
RETURN TO CALLER

002579				32290	/EJECT		
002580				32300	*		
002581				32310	*GENERATE BREAK TO NETWORK		
002582				32320	*		
002583				32330	*THIS ROUTINE IS CALLED WHEN THE NODE POINT DEVICE HAS		
002584				32340	*CAUSED A BREAK TO BE DETECTED. WE MUST FORWARD THIS INFORMATION		
002585				32350	*ONTO THE REMOTE END OF THE CONNECTION.		
002586				32360	*		
002587				32370	*THIS ROUTINE MUST NOT BE CALLED UNTIL CONNECTION ESTABLISHED		
002588				32380	*		
002589	08DE	CC87		32390	NETBRK	LDB	B4,B7
002590	08DF	2C7F		32400		LDV	R2,'7F'
002591	08E0	A504		32410		AND	R2,B4
002592	08E1	8E70	0083	32420		LEV	=\$LVDIS+HANGLV
002593	08E3	82C4	0008	32430		LB	B4+DEVFGS,SONOFF
	08E5	8000					
002594	08E6	05F5		32440		BBF	\$NETRTX
002595	08E7	8944	0008	32450		LBT	B4+DEVFGS,BRKACT
	08E9	0080					
002596	08EA	0571		32460		BBT	\$NETRTX
002597	08EB	8944	0008	32470		LBT	B4+DEVFGS,DCRDTA
	08ED	0040					
002598				32480	*		
002599	08EE	ACC4	000F	32490		LDB	B2,B4+HOSTNT
002600	08F0	ACC2	000E	32500		LDB	B2,B2+NETMAP
002601	08F2	ACA2		32510		LDB	B2,B2+R2
002602	08F3	8902		32520		LBT	B2,RSPOND
	08F4	1000					
002603				32530	*		
002604	08F5	8E70	803F	32540	.NETRTN	LEV	=\$LVEXI
002605	08F7	8756		32550		CL	R6
002606	08F8	E380	0000	32560		LNJ	B6,DEVMS
002607	08FA	8385		32570		JMP	B5

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002608					32580 /EJECT			
002609					32590 *			
002610					32600 *STORAGE, ETC.			
002611					32610 *			
002612	08FB	0000			32620 ZERO	DC	Z'0000'	FOR <B> MANIPULATORS
002613					32630 *			
002614	08FC	8C00	0000	X	32640 NETERR	STS	SERROR	SAVE LEVER WHERE CRASH OCCURRED
002615	08FE	8E70	0000		32650	LEV	=\$LVDIE	CRASH
002616					32660 *			
002617	0900	0000			32670 NETQ	DC	Z'0000'	NETWORK DEVICE QUEUE
002618	0901	0900			32680	DC	<NETQ	
002619	0902	0900			32690	DC	<NETQ	
002620					32700 *			
002621		0906			32710 NETXIV	EQU	\$+3	
002622	0903	0000			32720	RESV	3,Z'0000'	MMU,RFU,TSAP
002623	0906	0000			32730	DC	Z'0000'	DEVICE
002624	0907	FFFF			32740	DC	Z'FFFF'	SAVE ALL REGISTERS
002625	0908	0000			32750	DC	Z'0000'	NOTHING SAVED FROM 2ND SET OF REGISTERS
002626	0909	0000		X	32760	DC	<SMCPXT	START BY WAITING
002627	090A	6000			32770	DC	\$SRGP3	PRIORITY
002628	090B	0000			32780	RESV	16,Z'0000'	ROOM FOR REGISTERS

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002629  
002630  
002631  
002632  
002633  
002634  
002635  
002636  
002637  
002638  
002639

091B BB80 0906  
091D BE80 0030  
091F 8DD3  
0920 0980 08FC  
0922 3C30  
0923 9CD6  
0924 8380 0000

X  
  
  
  
  
  
  
  
  
  
  
X

32790 /EJECT  
32800 \*  
32810 \*INITIALIZATION ROUTINE  
32820 \*  
32830 INITNT LAB B3,NETXIV  
32840 SWB B3,\$IVECT+NETLEV  
32850 CMN =B3  
32860 BNE NETERR  
32870 LDV R3,NETLEV  
32880 LDB B1,=B6  
32890 JMP ASNTSK

PREP INTERRUPT VECTOR  
STILL A VIRGIN  
NO  
SET UP PACKET NETWORK LEVEL FOR TASKS  
SET TASKS...RETURN INDIRECT



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002640  
 002641  
 002642  
 002643  
 002644 0929  
 002645 0926 0000  
 002646  
 002647 092D 4E45  
           092E 5458  
 002648 092F 0000  
 002649 0930

99990 /EJECT  
 99991 \*  
 99992 \*FORCE ALL MODULES TO BE OMOD8 IN LENGTH  
 99993 \*  
 99994 E\$ENDR EQU \$-S\$NETX+3  
 99995 RESV ((E\$ENDR+7)/8)\*8-E\$ENDR,Z'0000'  
 99996 \*  
 99997 DC 'NETX' MNEUMONIC NAME OF MODULE  
 99998 E\$NETX DC <S\$NETX START OF ROUTINE  
 99999 END NETX SOFTWARE

0000 ERR COUNT  
 02504 WORD SYMBOL TABLE



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N \$ASCAP	127		
N \$ASCAS	130		
N \$ASCAT	142		
N \$ASCB	96		
N \$ASCBA	145		
N \$ASCBS	143		
N \$ASCC	97		
N \$ASCCM	132		
N \$ASCCN	136		
\$ASCCR	75	78	
N \$ASCD	98		
N \$ASCDL	126		
\$ASCDS	133	1020	2171
N \$ASCDT	134		
\$ASCE	99	151	
N \$ASCEC	77		
N \$ASCEM	158		
N \$ASCEQ	139		
N \$ASCF	100		
N \$ASCFF	157		
\$ASCFS	135	1025	2176
N \$ASCG	101		
N \$ASCGS	159		
N \$ASCGT	140		
N \$ASCH	102		
N \$ASCHT	155		
N \$ASCI	103		
N \$ASCJ	104		
N \$ASCK	105		
N \$ASCL	106		
\$ASCLF	76	78	
N \$ASCLP	123		
N \$ASCLT	138		
N \$ASCM	107		
N \$ASCN	108		
N \$ASCO	109		
N \$ASCP	110		
N \$ASCPL	131		
N \$ASCQ	111		
N \$ASCQM	141		
\$ASCR	112	1025	
\$ASCRO	146	147	1966
N \$ASCRP	129		
N \$ASCRS	160		
\$ASCS	113	2176	
N \$ASCSC	137		
\$ASCSP	125	1030	1735 2181
N \$ASCT	114		
N \$ASCU	115		
N \$ASCUA	144		
N \$ASCV	116		
N \$ASCVT	156		

N	\$ASCW	117																			
	\$ASCX	118	152																		
N	\$ASCY	119																			
	\$ASCZ	120	153																		
M	\$B	703																			
M	\$B	752																			
M	\$B	784																			
M	\$B	846																			
M	\$B	936																			
M	\$B	990																			
M	\$B	1086																			
M	\$B	1210																			
M	\$B	1230																			
M	\$B	1302																			
M	\$B	1374																			
M	\$B	1615																			
M	\$B	1684																			
M	\$B	1745																			
M	\$B	1829																			
M	\$B	2026																			
M	\$B	2190																			
M	\$B	2241																			
M	\$B	2288																			
M	\$B	2328																			
M	\$B	2499	699	759	761	773	847	932	987	1100	1206	1270	1295	1367	1634	1714	1733	1824	2021	2164	2235
		2284	2317	2495	2503																
\$B1	****	707	735	736	743	745	748	749	775	780	794	795	796	800	857	873	875	878	880	929	
		931	936	938	941	944	952	965	967	978	981	982	988	991	1090	1133	1134	1168	1173	1194	
		1195	1201	1248	1250	1252	1277	1447	1449	1456	1460	1461	1462	1464	1488	1490	1496	1498	1501	1515	
		1516	1522	1574	1575	1584	1653	1655	1658	1677	1687	1693	1695	1711	1769	1771	1774	1777	1783	1884	
		1901	1919	1932	1933	1961	1991	2015	2016	2017	2022	2101	2112	2118	2129	2136	2137	2139	2140	2147	
		2267	2270	2281	2282	2283	2285	2319	2320	2324	2334	2339	2340	2367	2368	2375	2381	2384	2392	2393	
		2403	2405	2406	2415	2478	2484	2486	2488	2510	2519	2521	2522	2638							
\$B2	****	708	736	749	769	791	792	795	859	883	884	885	886	887	888	889	890	891	892	893	
		894	1042	1051	1060	1062	1063	1065	1068	1069	1158	1159	1197	1255	1394	1395	1399	1408	1433	1434	
		1436	1496	1497	1508	1509	1527	1530	1532	1562	1563	1564	1576	1580	1586	1656	1657	1661	1698	1720	
		1723	1736	1739	1848	1849	1851	1852	1854	1860	1862	1865	1873	1875	1879	1900	1921	1945	1978	2007	
		2034	2037	2053	2054	2069	2136	2139	2197	2199	2203	2221	2231	2232	2237	2241	2243	2259	2263	2265	
		2269	2275	2279	2282	2292	2295	2297	2299	2313	2328	2351	2364	2368	2447	2448	2449	2474	2489	2502	
		2522	2548	2549	2550	2551	2571	2572	2573	2574	2599	2600	2601	2602							
\$B3	****	700	704	733	737	739	750	760	766	767	781	798	799	801	842	846	849	864	868	871	
		927	1087	1108	1156	1157	1174	1238	1239	1272	1299	1300	1371	1492	1493	1494	1495	1497	1500	1502	
		1503	1575	1584	1764	1802	1803	1833	1880	1905	1910	1911	1944	1945	1946	1947	1949	1978	1979	1980	
		1986	2016	2017	2018	2089	2155	2269	2288	2319	2320	2339	2340	2348	2350	2351	2352	2353	2354	2355	
		2356	2357	2358	2374	2375	2376	2377	2381	2384	2416	2465	2467	2468	2470	2507	2508	2509	2519	2520	
		2523	2633	2634	2635																
\$B4	****	691	698	705	713	714	719	729	730	735	743	745	748	757	758	766	769	775	780	785	
		787	788	791	796	800	804	805	810	812	820	823	831	832	837	850	852	858	896	897	
		902	915	924	929	930	931	933	941	942	961	962	965	966	967	969	973	978	979	981	
		982	983	990	992	1001	1006	1010	1011	1017	1022	1027	1032	1039	1041	1042	1049	1057	1063	1083	
		1086	1089	1090	1097	1099	1105	1121	1122	1123	1125	1126	1134	1136	1142	1143	1147	1153	1154	1158	
		1163	1173	1176	1189	1195	1196	1197	1219	1238	1244	1255	1258	1268	1269	1273	1274	1277	1296	1358	



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M \$E	2339	1013	1876	2333				
M \$F	1037							
M \$F	1882	1034	1867	1877				
M \$G	1057							
M \$G	1879	1043	1874					
M \$H	1055							
M \$H	1925	1052	1890					
\$I	1916	1908						
N \$ICTLI	31							
N \$ICTLO	32							
N \$IDINP	47							
N \$INMBA	36							
N \$INMMA	37							
N \$INRNG	38							
\$IOCHD	25	50						
\$IOCH1	26	51						
N \$IOCH2	27							
N \$IOCH3	28							
\$IOLD	49	50	51					
N \$IOLD1	50							
N \$IOLD0	51							
N \$ISTS1	45							
N \$ISTS2	46							
N \$IVB1	249							
N \$IVDEV	244							
\$IVECT	366	2634						
N \$IVI	250							
N \$IVLEV	242							
N \$IVM1	252							
N \$IVMSK	245							
N \$IVP	246							
N \$IVR1	251							
N \$IVREG	248							
N \$IVS	247							
N \$IVT	253							
N \$IVTSA	243							
\$J	1944	1983						
\$K	1961	1950	1976					
\$L	1952	1958						
\$LVDIE	283	2615						
\$LVDIS	281	2146	2472	2545	2592			
N \$LVDSX	282							
\$LVENT	280	283						
N \$LVEXE	279							
\$LVEXI	277	2150	2515	2518	2555	2577	2604	
N \$LVSCH	278							
\$M	1986	1956	1959	1970				
N \$M1JRS	288							
N \$M1JST	287							
N \$M1JTS	289							
\$MKB1	222	235						
N \$MKB13	235							

N \$MKB2	221																			
\$MKB3	220	237																		
\$MKB4	219	236																		
N \$MKB47	236																			
N \$MKB5	218																			
N \$MKB6	217																			
N \$MKB7	216																			
\$MKI	223	237																		
N \$MKM1	231																			
\$MKR1	230	233																		
N \$MKR13	233																			
N \$MKR2	229																			
\$MKR3	228	237																		
\$MKR4	227	234																		
N \$MKR47	234																			
N \$MKR5	226																			
N \$MKR6	225																			
N \$MKR7	224																			
N \$MKSTD	237																			
\$N	1969	1963																		
\$O	1974	1965	1967																	
N \$OBCTL	39																			
N \$OCCTL	33																			
N \$OTCTL	30																			
\$P	1989	1984																		
\$R1	****	874	876	879	881	930	933	936	938	942	945	953	966	969	979	1000	1001	1196	1200	1201
		1224	1248	1250	1252	1461	1517	1522	1574	1653	1655	1658	1687	1693	1695	1696	1770	1771	1775	1778
		1784	1919	1934	1961	2073	2075	2101	2117	2118	2138	2139	2140	2148	2376	2392	2393	2403	2405	2406
\$R2	****	788	789	792	795	1040	1041	1043	1051	1060	1062	1065	1066	1067	1068	1522	1524	1527	1530	1577
		1580	1721	1724	1729	1730	1737	1740	1837	1840	1841	1844	1845	1846	1847	1849	1851	1946	1979	2050
		2051	2052	2053	2070	2351	2356	2365	2366	2368	2444	2445	2448	2491	2496	2499	2500	2502	2505	2543
		2544	2550	2551	2552	2553	2569	2570	2573	2590	2591	2601								
\$R3	****	841	845	846	847	853	854	855	863	867	868	869	1039	1044	1046	1184	1186	1264	1266	1285
		1292	1294	1307	1315	1318	1322	1324	1325	1327	1462	1463	1474	1578	1582	1890	1954	1956	1975	1976
		1983	2464	2637																
\$R4	****	740	936	946	950	984	988	990	997	1361	1375	1377	1382	1652	1653	1654	1655	1682	1687	1689
		1713	2203	2204	2210	2215	2218	2220	2221	2223	2309	2310	2311	2314	2329					
\$R5	****	697	770	858	926	938	948	991	992	993	995	998	1215	1216	1217	1218	1219	1245	1358	1359
		1366	1385	1438	1571	1617	1619	1621	1650	1685	1762	1771	1779	1781	1825	1829	1834	1869	1916	1929
		2008	2009	2022	2043	2066	2068	2080	2084	2036	2090	2093	2098	2118	2119	2126	2153	2223	2224	2225
		2237	2238	2239	2252	2301	2302	2314	2324	2329	2334	2378	2379	2380	2398	2406	2407	2473	2478	2481
\$R6	****	713	784	785	804	823	824	825	831	896	915	916	917	946	948	950	973	975	983	985
		1006	1007	1009	1010	1011	1012	1017	1022	1027	1032	1033	1034	1201	1202	1205	1207	1215	1227	1229
		1231	1236	1239	1247	1248	1249	1250	1251	1252	1317	1321	1325	1360	1361	1364	1366	1370	1375	1376
		1377	1378	1380	1382	1383	1395	1396	1398	1399	1404	1408	1409	1410	1411	1412	1413	1498	1499	1500
		1501	1502	1556	1560	1563	1573	1574	1580	1599	1616	1617	1624	1626	1630	1645	1648	1657	1658	1688
		1691	1693	1694	1695	1726	1779	1781	1918	1919	1961	1964	1965	1966	2116	2121	2122	2140	2142	2143
		2157	2158	2160	2161	2162	2163	2168	2173	2178	2183	2184	2185	2190	2191	2197	2198	2199	2200	2204
		2207	2210	2211	2212	2214	2218	2219	2220	2241	2242	2243	2248	2250	2251	2252	2395	2396	2397	2399
		2401	2402	2403	2404	2405	2473	2481	2492	2496	2500	2605								
\$R7	****	1189	1190	1191	1203	1204	1210	1212	1216	1222	1223	1224	1227	1230	1233	1234	1235	1236	1254	1362
		1365	1368	1369	1374	1401	1402	1403	1404	1405	1406	1410	1518	1519	1520	1523	1553	1561	1585	1596





BRKACT	574	1711	2595																		
N BSCPCL	485																				
N BTLDCH	56																				
N CBACKB	544																				
CINMGX	364	739																			
CIVDEV	422	423																			
CKOUTQ	364	1756																			
CKRPS	1358	1420	1424	1432																	
CKSPS	1394	1441																			
CLKPRC	572	1147	1176																		
CLKVAL	420	421																			
CLOUTQ	364	741																			
CLRDCE	1142	1185	1286	1310	1346																
CLRDTE	1153	1143	1242	1607																	
CLRERR	1150	1055	1187	1192	1208	1213	1220	1287	1308	1326	1335	1342	1343	1344	1345	1347	1348	1349	1368	1397	
		1414	1520	1525	1535	1536	1538	1539	1540	1542	1545	1547	1548	1554	1557	1566	1597	1600	1637	1670	
		1707	1712																		
CLRNET	766	733	760	1108																	
CLRUSR	2309	797	1160	1909																	
CLRXT	1176	1163																			
CMDRLS	1089	1050	1058	1098	1109	1116	1177	1280	1302	1427	1443	1448	1450	1454	1476	1489	1588	1602	1616	1635	
		1664	1675	1701	1710																
CNSLEV	305	306																			
COMAND	557	561	990	1027	1039	1358	1412	2119	2178	2407											
CONQ	562	563	891	1197	2328																
CPARAM	1590	1576	1591																		
CPARML	1591	1578	1585																		
N CPLRLV	302																				
N CPUOCH	55																				
CRQMGL	2107	1191	1218	2070																	
CRQMSG	2106	2069																			
N CTLMOD	502																				
CURBUF	317	313																			
CURLEN	318	319	1500																		
N DATAOK	515																				
N DBGLEV	308																				
DCECLR	1307	1075																			
DCEDTE	496	2494																			
DCEMSG	1488	1452																			
DCEPSF	622	1396	2200	2219																	
DCEPSI	623	1398																			
DCEPSN	620	2219	2224	2238																	
N DCEPSX	621																				
DCEPXX	625	2354																			
DCEQMG	1542	1530																			
DCERC	1083	1047																			
DCERI	1097	1045																			
DCERNR	606	1421	1425	1925	2004																
DCEWTG	1285	1073	1267																		
DCRDTA	575	1449	1601	1627	1678	2514	2597														
DEVBKL	403	408																			
DEVFGS	395	396	694	698	826	962	1049	1057	1083	1086	1097	1099	1105	1123	1125	1126	1147	1176	1447	1449	













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TSKINF	396	397	855	2153				
TSKOFF	2413	2530						
TSKRET	397	398	766	812	1803			
TSKRTE	362	843	865	919	934	1785		
TSKR TN	362	721	839	904	918	1766	1794	
TSKSNT	571	1760	1814	2149				
TSKSRO	2428	2527						
TSKSTI	2438	2529						
TSKXIT	2433	2417	2439	2451	2459			
N TSOVLV	296							
UCKRPS	2197	1866	2035					
UCMDTB	1342	1316	1353					
UCMTBL	1353	1317						
N UNEDIT	340							
UPDRPS	2203	1868	2042	2234				
UPDSPS	2231	2114						
N USRDTA	64							
UWORD	67	2016	2319	2339	2375			
N WACKNG	542							
N WATLEV	299							
N WDTLEV	295							
WTGCLK	1146	1386	2065	2083	2125			
X25CMD	454	455						
X25FGS	455	456						
X25PCL	484	2486						
X25STB	1071	1068						
X25TIP	649	1561						
X\$CCLR	600	1143	1269					
X\$CWTG	598	1258						
X\$ICTX	602	1274	2553					
X\$IITX	601	2079						
X\$MODE	595	1066	2051	2552				
X\$TCLR	599	1154	1913					
X\$TWTG	597	2507						
N XINDEL	656							
XINESC	655	1474						
N XINNSE	654							
N XMTMOD	504							
XNETIM	965	1092	1259	1472	1510			
XNETIN	961	925						
XNETOE	1886	1997	2029					
XNETOF	757	696						
XNETOL	1840	1850	2040					
XNETOM	1813	970	1128	1178	1483	1807	2423	
XNETOR	2050	1855	1914					
XNETOT	1809	1763						
XNETOW	2112	1995	2019					
XNETOX	2136	1871	2045	2104				
XNETOY	1801	1820	1842					
XNETOZ	1806	1802						
XNTCBK	1790	2152						
XNTINC	915	356						



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N XNTINM 924  
XNTOFF 729 703  
XNTOFFL 691 356  
N XNTOFL 820  
N XNTOTM 1754  
XNTOTX 1768 1757  
ZERO 2612 794 1133 1194 2002 2281 2367  
688 LABELS  
2740 REFERENCES  
2649 RECORDS  
0 U FLAGS  
83 M FLAGS  
247 N FLAGS  
10362 WORD CROSS REFERENCE TABLE

