

001366 IDENT PPUSIM
PROGRAM LENGTH

BLOCKS

000000	000016	ABSOLUTE#	ABSOLUTE
000000	001351	PROGRAM#	LOCAL
001351	000015	LITERALS#	LOCAL
000000	000052	CHANS	COMMON
000000	020120	PPU	COMMON

ENTRY POINTS

000023 PPUSIM

000000 PPUINIT

001155 PPUDUMP

EXTERNAL SYMBOLS

FILENAM	THEEND	CMSIZE	XCHJP	CENTRAL	MONITOR	PR	PRINTL
LINE	PPCLOCK						

		ENTRY	PPUSIM	SIMTSS	00274
*				SIMTSS	00275
		EXT	FILENAM	SIMTSS	00276
*				SIMTSS	00277
*				SIMTSS	00278
*	X0		77777777777777770000B	SIMTSS	00279
*	B1		1	SIMTSS	00280
*	B2		PPU REGISTER POINTER	SIMTSS	00281
*	B3		SHIFT COUNT FOR THE PPU MEMORY	SIMTSS	00282
*	B4		BLOCK POINTER FOR THE PPU MEMORY	SIMTSS	00283
*				SIMTSS	00284
*	B7		EFFECTIVE FETCH ADDRESS	SIMTSS	00285
*	X5		MEMORY WORD (FD) (MAY BE DESTROYED ON NON STORES)	SIMTSS	00286
*	X7		ROTATED PACKED MEMORY WORD	SIMTSS	00287
*				SIMTSS	00288
*				SIMTSS	00289
*		NOTE ..	A REGISTER 18 BIT SIGN EXTENDED	SIMTSS	00290
*			P REGISTER 12 BIT SIGN EXTENDED	SIMTSS	00291
*			Q REGISTER 6 BIT AFTER INSTRUCTION FETCH (NO SGN EX)	SIMTSS	00292
*			12 BIT SIGN EXTENDED USUALLY	SIMTSS	00293
*			Z REGISTER 0	SIMTSS	00294
*			F REGISTER FLAG REGISTER	SIMTSS	00295
*			0 IF THIS PPU NORMAL RUNNING	SIMTSS	00296
*			1 IF THIS PPU TO BE SKIPPED	SIMTSS	00297
*			2 IF PPU SCAN TO BE TERMINATED	SIMTSS	00298
*			-0 IF PPU S BEING TRACED	SIMTSS	00299
*				SIMTSS	00300
	000004	ORG	4	SIMTSS	00301
	000004	BSSZ	10	SIMTSS	00302
		USE	0	SIMTSS	00303
				SIMTSS	00304

*
KACT MACRO REG,ACT
 VFD 12/0,18/REG,30/ACT
 ENDM

*
OPACT MACRO ACT,NEWK
 VFD 12/0,18/NEWK,30/ACT
 ENDM

SIMTSS 00306
SIMTSS 00307
SIMTSS 00308
SIMTSS 00309
SIMTSS 00310
SIMTSS 00311
SIMTSS 00312
SIMTSS 00313

000000	00000000000000000000	PPUINIT	DATA	0		SIMTSS	00315
			ENTRY	PPUINIT		SIMTSS	00316
000001	76700		SX7	B0		SIMTSS	00317
	6110000110		SB1	9*NREGS		SIMTSS	00318
000002	6120000011		SB2	9		SIMTSS	00319
	76600		SX6	B0		SIMTSS	00320
000003	5160000120 C		SA6	PMEM		SIMTSS	00321
	5066010000		SA6	A6+4096		SIMTSS	00322
000004	76600	INITL	SX6	B0		SIMTSS	00323
	5161000006 C		SA6	F+B1		SIMTSS	00324
000005	5161000001 C		SA6	P+B1		SIMTSS	00325
	76620		SX6	B2		SIMTSS	00326
000006	5161000002 C		SA6	Q+B1		SIMTSS	00327
	5171000000 C		SA7	A+B1		SIMTSS	00328
000007	7160000466 +		SX6	K712		SIMTSS	00329
	5161000003 C		SA6	K+B1	SEI TO INPUT	SIMTSS	00330
000010	7160003777		SX6	3777B		SIMTSS	00331
	20660		LX6	48		SIMTSS	00332
000011	5162000000 C		SA6	CHANSTAT+B2	SEI CHANNEL TO ACTIVE-EMPTY	SIMTSS	00333
	76622		SX6	B2+B2		SIMTSS	00334
000012	7216777765		SX1	X6-10		SIMTSS	00335
000013	0331000014 +	+	NG	X1,*+1		SIMTSS	00336
	7261000000		SX6	X1+0		SIMTSS	00337
000014	5161000005 C		SA6	COL+B1		SIMTSS	00338
000015	6111777767	NOPPU	SB1	B1-NREGS		SIMTSS	00339
	6122777776		SB2	B2-1		SIMTSS	00340
000016	0610000004 +		PL	B1,INITL		SIMTSS	00341
	7160003777		SX6	3777B		SIMTSS	00342
000017	20660		LX6	48		SIMTSS	00343
	5160000012 C		SA6	CHANSTAT+10		SIMTSS	00344
000020	5066000001		SA6	A6+1		SIMTSS	00345
	5066000001		SA6	A6+1		SIMTSS	00346
000021	5066000001		SA6	A6+1		SIMTSS	00347
	5066000001		SA6	A6+1		SIMTSS	00348
000022	0400000000 +		EQ	PPUINIT		SIMTSS	00349

5160000002 X
000076 0400000077 *

SA6
EQ

LINE+2
TESTPP

SIMTSS 00405
SIMTSS 00406
SIMTSS 00407

000077	5112000006 C	TESTPP	SA1	B2+F	PICK UP FLAG CELL	SIMTSS	00408
	0301000103 +		ZR	X1, FETCH	ZERO, SO PROCEED WITH THIS PPU	SIMTSS	00409
000100	7211777776		SX1	X1-1		SIMTSS	00410
	0301000112 +		ZR	X1, NEXTPP	IF 1 SKIP THIS PP	SIMTSS	00411
000101	7211777776		SX1	X1-1		SIMTSS	00412
	0301000124 +		ZR	X1, EXIT	STOP SCAN IF 2	SIMTSS	00413
000102	0400000124 +		EQ	EXIT		SIMTSS	00414
		*				SIMTSS	00415
000103	5112000003 C	FETCH	SA1	B2+K	PICK UP K	SIMTSS	00416
	43060		MX0	48	MAKE X0	SIMTSS	00417
	53210		SA2	X1	PICK UP K MACRO	SIMTSS	00418
000104	63520		SB5	X2	PUT K ACTION IN B5	SIMTSS	00419
	21236		AX2	30	POINT TO FETCH REGISTER	SIMTSS	00420
	53222		SA2	X2+B2	PICK UP CONTENTS OF FETCH REGISTER	SIMTSS	00421
	15220		BX2	-X0*X2	MASK OFF LOWER 12 BITS	SIMTSS	00422
000105	63724		SB7	X2+B4		SIMTSS	00423
	6177000120 C		SB7	B7+PMEM	NOW HAVE EFFECTIVE PACKED WORD ADDR	SIMTSS	00424
	56270		SA2	B7	PICK UP PACKED DATA WORD	SIMTSS	00425
000106	22732		LX7	B3, X2	ROTATE PACKED WORD INTO X7	SIMTSS	00426
	15570		BX5	-X0*X7	FD NOW IN X5	SIMTSS	00427
	11707		BX7	X0*X7	X7 NOW ZEROED FOR NEW WORD	SIMTSS	00428
000107	0250000000		JP	B5	PERFORM K ACTION	SIMTSS	00429
		*				SIMTSS	00430
	0000107 +	NULL	EQU	*		SIMTSS	00431
000110	15550	MSTORE	BX5	-X0*X5	MASK NEW WORD TO 12 BITS	SIMTSS	00432
	12757		BX7	X5+X7	OR IN NEW WORD	SIMTSS	00433
	6153777703		SB5	B3-60		SIMTSS	00434
000111	23757		AX7	B5, X7	ROTATE PACKED WORD	SIMTSS	00435
	56770		SA7	B7	STORE PACKED WORD	SIMTSS	00436
		*				SIMTSS	00437
000112	6122000010	NEXTPP	SB2	B2+NREGS	STEP REGISTER POINTER	SIMTSS	00438
	6133000014		SB3	B3+12	STEP SHIFT COUNT	SIMTSS	00439
000113	6153777753		SB5	B3-60		SIMTSS	00440
	0505000077 +		NE	B0, B5, TESTPP	PROCEED IF NO OVERFLOW	SIMTSS	00441
000114	66350		SB3	B5	SET SHIFT TO ZERO	SIMTSS	00442
	6144010000		SB4	B4+4096	STEP BLOCK POINTER	SIMTSS	00443
000115	5110001350 +		SA1	=SLINEP		SIMTSS	00444
	6154757777		SB5	B4-8192		SIMTSS	00445
000116	0301000123 +		ZR	X1, NEXTPPT		SIMTSS	00446
	76600		SX6	B0		SIMTSS	00447
	54610		SA6	A1		SIMTSS	00448
000117	76640		SX6	B4		SIMTSS	00449
	5160001347 +		SA6	=SB4S		SIMTSS	00450
000120	0100000000 X		RJ	PRINTL		SIMTSS	00451
000121	5110001347 +		SA1	B4S		SIMTSS	00452
	6251757777		SB5	X1-8192		SIMTSS	00453
000122	63410		SB4	X1		SIMTSS	00454
	66300		SB3	B0		SIMTSS	00455
	6120000050		SB2	5*NREGS		SIMTSS	00456
000123		NEXTPPT	BSS	0		SIMTSS	00457
000123	0505000077 +		NE	B0, B5, TESTPP	PROCEED IF NO OVERFLOW	SIMTSS	00458
		*				SIMTSS	00459
000124		EXIT	BSSZ	0		SIMTSS	00460
000124	5110001350 +		SA1	=SLINEP		SIMTSS	00461

0301000023 +	ZR	X1,PPUSIM		SIMTSS	00462
000125 0100000000 X	RJ	PRINTL	PRINT LAST LINE	SIMTSS	00463
000126 0200000023 +	JP	PPUSIM	ALL PPUS ACCOUNTED FOR	SIMTSS	00464

	OP	MACRO DATA ENDM	BCD 3L-BCD	SIMTSS	00466
				SIMTSS	00467
				SIMTSS	00468
000127	OPBCD	OP	PSN	SIMTSS	00469
000130		OP	LJM	SIMTSS	00470
000131		OP	RJM	SIMTSS	00471
000132		OP	UJN	SIMTSS	00472
000133		OP	ZJN	SIMTSS	00473
000134		OP	NJN	SIMTSS	00474
000135		OP	PJN	SIMTSS	00475
000136		OP	MJN	SIMTSS	00476
000137		OP	SHN	SIMTSS	00477
000140		OP	LMN	SIMTSS	00478
000141		OP	LPN	SIMTSS	00479
000142		OP	SCN	SIMTSS	00480
000143		OP	LDN	SIMTSS	00481
000144		OP	LCN	SIMTSS	00482
000145		OP	ADN	SIMTSS	00483
000146		OP	SBN	SIMTSS	00484
000147		OP	LDC	SIMTSS	00485
000150		OP	ADC	SIMTSS	00486
000151		OP	LPC	SIMTSS	00487
000152		OP	LMC	SIMTSS	00488
000153		OP	TRN	SIMTSS	00489
000154		OP	UTN	SIMTSS	00490
000155		OP	XJN	SIMTSS	00491
000156		OP	RPN	SIMTSS	00492
000157		OP	LDD	SIMTSS	00493
000160		OP	ADD	SIMTSS	00494
000161		OP	SBD	SIMTSS	00495
000162		OP	LMD	SIMTSS	00496
000163		OP	STD	SIMTSS	00497
000164		OP	RAD	SIMTSS	00498
000165		OP	AOD	SIMTSS	00499
000166		OP	SOD	SIMTSS	00500
000167		OP	LDI	SIMTSS	00501
000170		OP	ADI	SIMTSS	00502
000171		OP	SBI	SIMTSS	00503
000172		OP	LMI	SIMTSS	00504
000173		OP	STI	SIMTSS	00505
000174		OP	RAI	SIMTSS	00506
000175		OP	AOI	SIMTSS	00507
000176		OP	SOI	SIMTSS	00508
000177		OP	LDM	SIMTSS	00509
000200		OP	ADM	SIMTSS	00510
000201		OP	SBM	SIMTSS	00511
000202		OP	LMM	SIMTSS	00512
000203		OP	STM	SIMTSS	00513
000204		OP	RAM	SIMTSS	00514
000205		OP	AOM	SIMTSS	00515
000206		OP	SOM	SIMTSS	00516
000207		OP	CRD	SIMTSS	00517
000210		OP	CRM	SIMTSS	00518
000211		OP	CWD	SIMTSS	00519

000212
000213
000214

OP
OP
OP

CWM
AJM
IJM

SIMTSS 00520
SIMTSS 00521
SIMTSS 00522

000215	OP	FJM	SIMTSS	00523
000216	OP	EJM	SIMTSS	00524
000217	OP	IAN	SIMTSS	00525
000220	OP	IAM	SIMTSS	00526
000221	OP	OAN	SIMTSS	00527
000222	OP	OAM	SIMTSS	00528
000223	OP	ACN	SIMTSS	00529
000224	OP	DCN	SIMTSS	00530
000225	OP	FAN	SIMTSS	00531
000226	OP	FNC	SIMTSS	00532

000227		BSSZ	0	SIMTSS	00534
	0000227 *	OPS	*	SIMTSS	00535
		*		SIMTSS	00536
000227	OP00	OPACT	STOPPPU,K000	SIMTSS	00537
000230	OP01	OPACT	DTEST,K010	SIMTSS	00538
000231	OP02	OPACT	DTEST,K020	SIMTSS	00539
000232	OP03	OPACT	UJN,K000	SIMTSS	00540
000233	OP04	OPACT	ZJN,K000	SIMTSS	00541
000234	OP05	OPACT	NJN,K000	SIMTSS	00542
000235	OP06	OPACT	PJN,K000	SIMTSS	00543
000236	OP07	OPACT	MJN,K000	SIMTSS	00544
000237	OP10	OPACT	SHN,K000	SIMTSS	00545
000240	OP11	OPACT	LMN,K000	SIMTSS	00546
000241	OP12	OPACT	LPN,K000	SIMTSS	00547
000242	OP13	OPACT	SCN,K000	SIMTSS	00548
000243	OP14	OPACT	LDN,K000	SIMTSS	00549
000244	OP15	OPACT	LCN,K000	SIMTSS	00550
000245	OP16	OPACT	ADN,K000	SIMTSS	00551
000246	OP17	OPACT	SBN,K000	SIMTSS	00552
000247	OP20	OPACT	NEXTPP,K200	SIMTSS	00553
000250	OP21	OPACT	NEXTPP,K210	SIMTSS	00554
000251	OP22	OPACT	NEXTPP,K220	SIMTSS	00555
000252	OP23	OPACT	NEXTPP,K230	SIMTSS	00556
000253	OP24	OPACT	SETTRACE,K000	SIMTSS	00557
000254	OP25	OPACT	CLRTRACE,K000	SIMTSS	00558
000255	OP26	OPACT	EXN,K000	SIMTSS	00559
000256	OP27	OPACT	RPN,K000	SIMTSS	00560
000257	OP30	OPACT	NEXTPP,K300	SIMTSS	00561
000260	OP31	OPACT	NEXTPP,K310	SIMTSS	00562
000261	OP32	OPACT	NEXTPP,K320	SIMTSS	00563
000262	OP33	OPACT	NEXTPP,K330	SIMTSS	00564
000263	OP34	OPACT	NEXTPP,K340	SIMTSS	00565
000264	OP35	OPACT	NEXTPP,K350	SIMTSS	00566
000265	OP36	OPACT	NEXTPP,K360	SIMTSS	00567
000266	OP37	OPACT	NEXTPP,K370	SIMTSS	00568
000267	OP40	OPACT	NEXTPP,K400	SIMTSS	00569
000270	OP41	OPACT	NEXTPP,K410	SIMTSS	00570
000271	OP42	OPACT	NEXTPP,K420	SIMTSS	00571
000272	OP43	OPACT	NEXTPP,K430	SIMTSS	00572
000273	OP44	OPACT	NEXTPP,K440	SIMTSS	00573
000274	OP45	OPACT	NEXTPP,K450	SIMTSS	00574
000275	OP46	OPACT	NEXTPP,K460	SIMTSS	00575
000276	OP47	OPACT	NEXTPP,K470	SIMTSS	00576
000277	OP50	OPACT	DTEST,K500	SIMTSS	00577
000300	OP51	OPACT	DTEST,K510	SIMTSS	00578
000301	OP52	OPACT	DTEST,K520	SIMTSS	00579
000302	OP53	OPACT	DTEST,K530	SIMTSS	00580
000303	OP54	OPACT	DTEST,K540	SIMTSS	00581
000304	OP55	OPACT	DTEST,K550	SIMTSS	00582
000305	OP56	OPACT	DTEST,K560	SIMTSS	00583
000306	OP57	OPACT	DTEST,K570	SIMTSS	00584
000307	OP60	OPACT	CRD,K600	SIMTSS	00585
000310	OP61	OPACT	NEXTPP,K610	SIMTSS	00586
000311	OP62	OPACT	NEXTPP,K620	SIMTSS	00587

000312
000313
000314

OP63
OP64
OP65

OPACT
OPACT
OPACT

NEXTPP,K630
NEXTPP,K640
NEXTPP,K650

SIMTSS 00588
SIMTSS 00589
SIMTSS 00590

000315	OP66	OPACT	NEXTPP,K660	SIMTSS	00591
000316	OP67	OPACT	NEXTPP,K670	SIMTSS	00592
000317	OP70	OPACT	NEXTPP,K700	SIMTSS	00593
000320	OP71	OPACT	NEXTPP,K710	SIMTSS	00594
000321	OP72	OPACT	NEXTPP,K720	SIMTSS	00595
000322	OP73	OPACT	NEXTPP,K730	SIMTSS	00596
000323	OP74	OPACT	NEXTPP,K740	SIMTSS	00597
000324	OP75	OPACT	NEXTPP,K750	SIMTSS	00598
000325	OP76	OPACT	NEXTPP,K760	SIMTSS	00599
000326	OP77	OPACT	NEXTPP,K770	SIMTSS	00600

000327	K000	KACT	P,IFETCH	SIMTSS	00602
000330	K010	KACT	Q,SETQ	SIMTSS	00603
000331	K011	KACT	P,LJM	SIMTSS	00604
000332	K020	KACT	Q,SETQ	SIMTSS	00605
000333	K021	KACT	P,RJM1	SIMTSS	00606
000334	K022	KACT	Q,RJM2	SIMTSS	00607
000335	K200	KACT	P,LDC	SIMTSS	00608
000336	K210	KACT	P,ADC	SIMTSS	00609
000337	K220	KACT	P,LPC	SIMTSS	00610
000340	K230	KACT	P,LMC	SIMTSS	00611
000341	K300	KACT	Q,LOAD	SIMTSS	00612
000342	K310	KACT	Q,ADD	SIMTSS	00613
000343	K320	KACT	Q,SUB	SIMTSS	00614
000344	K330	KACT	Q,LOGDIF	SIMTSS	00615
000345	K340	KACT	Q,STORE	SIMTSS	00616
000346	K350	KACT	Q,RADD	SIMTSS	00617
000347	K360	KACT	Q,RADD1	SIMTSS	00618
000350	K370	KACT	Q,RSUB1	SIMTSS	00619
000351	K400	KACT	Q,SETQ	SIMTSS	00620
000352	K401	KACT	Q,LOAD	SIMTSS	00621
000353	K410	KACT	Q,SETQ	SIMTSS	00622
000354	K411	KACT	Q,ADD	SIMTSS	00623
000355	K420	KACT	Q,SETQ	SIMTSS	00624
000356	K421	KACT	Q,SUB	SIMTSS	00625
000357	K430	KACT	Q,SETQ	SIMTSS	00626
000360	K431	KACT	Q,LOGDIF	SIMTSS	00627
000361	K440	KACT	Q,SETQ	SIMTSS	00628
000362	K441	KACT	Q,STORE	SIMTSS	00629
000363	K450	KACT	Q,SETQ	SIMTSS	00630
000364	K451	KACT	Q,RADD	SIMTSS	00631
000365	K460	KACT	Q,SETQ	SIMTSS	00632
000366	K461	KACT	Q,RADD1	SIMTSS	00633
000367	K470	KACT	Q,SETQ	SIMTSS	00634
000370	K471	KACT	Q,RSUB1	SIMTSS	00635
000371	K500	KACT	Q,SETQ	SIMTSS	00636
000372	K501	KACT	P,MINDEX	SIMTSS	00637
000373	K502	KACT	Q,LOAD	SIMTSS	00638
000374	K510	KACT	Q,SETQ	SIMTSS	00639
000375	K511	KACT	P,MINDEX	SIMTSS	00640
000376	K512	KACT	Q,ADD	SIMTSS	00641
000377	K520	KACT	Q,SETQ	SIMTSS	00642
000400	K521	KACT	P,MINDEX	SIMTSS	00643
000401	K522	KACT	Q,SUB	SIMTSS	00644
000402	K530	KACT	Q,SETQ	SIMTSS	00645
000403	K531	KACT	P,MINDEX	SIMTSS	00646
000404	K532	KACT	Q,LOGDIF	SIMTSS	00647
000405	K540	KACT	Q,SETQ	SIMTSS	00648
000406	K541	KACT	P,MINDEX	SIMTSS	00649
000407	K542	KACT	Q,STORE	SIMTSS	00650
000410	K550	KACT	Q,SETQ	SIMTSS	00651
000411	K551	KACT	P,MINDEX	SIMTSS	00652
000412	K552	KACT	Q,RADD	SIMTSS	00653
000413	K560	KACT	Q,SETQ	SIMTSS	00654
000414	K561	KACT	P,MINDEX	SIMTSS	00655

000415
000416
000417

K562
K570
K571

KACT
KACT
KACT

Q,RADD1
Q,SETQ
P,MINDEX

SIMTSS 00656
SIMTSS 00657
SIMTSS 00658

000420	K572	KACT	Q,RSUB1	SIMTSS	00659
000421	K600	KACT	P,CRD	SIMTSS	00660
000422	K601	KACT	Q,CRD1	SIMTSS	00661
000423	K602	KACT	Q,CRD2	SIMTSS	00662
000424	K603	KACT	Q,CRD3	SIMTSS	00663
000425	K604	KACT	Q,CRD4	SIMTSS	00664
000426	K605	KACT	Q,CRD5	SIMTSS	00665
000427	K610	KACT	Q,SETQ	SIMTSS	00666
000430	K611	KACT	Z,STOP	SIMTSS	00667
000431	K612	KACT	P,CRM	SIMTSS	00668
000432	K612R	KACT	P,CRMC	SIMTSS	00669
000433	K613	KACT	P,CRM1	SIMTSS	00670
000434	K614	KACT	P,CRM2	SIMTSS	00671
000435	K615	KACT	P,CRM3	SIMTSS	00672
000436	K616	KACT	P,CRM4	SIMTSS	00673
000437	K617	KACT	P,CRM5	SIMTSS	00674
000440	K620	KACT	Q,CWD1	SIMTSS	00675
000441	K621	KACT	Q,CWD2	SIMTSS	00676
000442	K622	KACT	Q,CWD3	SIMTSS	00677
000443	K623	KACT	Q,CWD4	SIMTSS	00678
000444	K624	KACT	Q,CWD5	SIMTSS	00679
000445	K625	KACT	P,CWD6	SIMTSS	00680
000446	K630	KACT	Q,SETQ	SIMTSS	00681
000447	K631	KACT	Z,STOP	SIMTSS	00682
000450	K632	KACT	P,SETP	SIMTSS	00683
000451	K633	KACT	P,CWM1	SIMTSS	00684
000452	K634	KACT	P,CWM2	SIMTSS	00685
000453	K635	KACT	P,CWM3	SIMTSS	00686
000454	K636	KACT	P,CWM4	SIMTSS	00687
000455	K637	KACT	P,CWM5	SIMTSS	00688
000456	K638	KACT	P,CWM6	SIMTSS	00689
000457	K640	KACT	P,AJM	SIMTSS	00690
000460	K650	KACT	P,IJM	SIMTSS	00691
000461	K660	KACT	P,FJM	SIMTSS	00692
000462	K670	KACT	P,EJM	SIMTSS	00693
000463	K700	KACT	P,IAN	SIMTSS	00694
000464	K710	KACT	Z,STOP	SIMTSS	00695
000465	K711	KACT	P,SETP	SIMTSS	00696
000466	K712	KACT	P,IAN	SIMTSS	00697
000467	K713	KACT	Z,LDP	SIMTSS	00698
000470	K720	KACT	P,OAN	SIMTSS	00699
000471	K730	KACT	Z,STOP	SIMTSS	00700
000472	K731	KACT	P,SETP	SIMTSS	00701
000473	K732	KACT	P,OAM	SIMTSS	00702
000474	K733	KACT	Z,LDP	SIMTSS	00703
000475	K740	KACT	P,ACN	SIMTSS	00704
000476	K750	KACT	P,DCN	SIMTSS	00705
000477	K760	KACT	P,FAN	SIMTSS	00706
000500	K770	KACT	P,FNC	SIMTSS	00707

Address	Instruction	Op	Op	Op	Op	Op	Op
000501 43166	IFETCH	MX1	60-6	6 BIT MASK	SIMTSS	00709	
15651		BX6	-X1*X5	D FIELD IN X6	SIMTSS	00710	
5162000002 C		SA6	B2+Q	Q HAS D FIELD	SIMTSS	00711	
000502 73650		SX6	X5		SIMTSS	00712	
21606		AX6	6	F FIELD	SIMTSS	00713	
5216000227 +		SA1	X6+OPS	X1 NOW HAS OP ACTION	SIMTSS	00714	
000503 5256000127 +		SA5	OPBCD+X6	GET CHARACTERS	SIMTSS	00715	
63510		SB5	X1	B5 NOW HAS JUMP LOC	SIMTSS	00716	
21136		AX1	30		SIMTSS	00717	
000504 73610		SX6	X1	X6 NOW HAS NEW K VALUE	SIMTSS	00718	
5162000003 C		SA6	B2+K	PLACE NEW K VALUE IN K	SIMTSS	00719	
000505 5112000001 C		SA1	B2+P	ADVANCE P	SIMTSS	00720	
73610		SX6	X1	BUT	SIMTSS	00721	
000506 5160001341 +		SA6	OLDP	SAVE ORIGINAL VALUE OF P FOR UJN ETC	SIMTSS	00722	
73661		SX6	X6+B1	P+1	SIMTSS	00723	
20660		LX6	60-12	12 BIT	SIMTSS	00724	
000507 21660		AX6	60-12	1 S COMP	SIMTSS	00725	
54610		SA6	A1		SIMTSS	00726	
5112000006 C		SA1	B2+F		SIMTSS	00727	
000510 0321000544 +		PL	X1.CALLB5		SIMTSS	00728	
7216777776		SX1	X6-1		SIMTSS	00729	
000511 5120001354 +		SA2	=4R0000		SIMTSS	00730	
43371		MX3	57		SIMTSS	00731	
15413		BX4	-X3*X1		SIMTSS	00732	
000512 36224		IX2	X2+X4		SIMTSS	00733	
20303		LX3	3		SIMTSS	00734	
15413		BX4	-X3*X1		SIMTSS	00735	
20403		LX4	3		SIMTSS	00736	
000513 36224		IX2	X2+X4		SIMTSS	00737	
20303		LX3	3		SIMTSS	00738	
15413		BX4	-X3*X1		SIMTSS	00739	
20406		LX4	6		SIMTSS	00740	
000514 36224		IX2	X2+X4		SIMTSS	00741	
20303		LX3	3		SIMTSS	00742	
15413		BX4	-X3*X1		SIMTSS	00743	
20411		LX4	9		SIMTSS	00744	
000515 36624		IX6	X2+X4		SIMTSS	00745	
5142000005 C		SA4	COL+B2		SIMTSS	00746	
000516 5112000007 C		SA1	B2+PCHARS		SIMTSS	00747	
12115		BX1	X1+X5	GET BCD CHARS	SIMTSS	00748	
12661		BX6	X6+X1		SIMTSS	00749	
000517 5264000003 X		SA6	=XLINE+X4+3		SIMTSS	00750	
5112000000 C		SA1	B2+A		SIMTSS	00751	
000520 43271		MX2	57		SIMTSS	00752	
20152		LX1	60-18		SIMTSS	00753	
76600		SX6	B0		SIMTSS	00754	
000006		DUP	6.5		SIMTSS	00755	
		LX1	3		SIMTSS	00756	
		BX3	-X2*X1		SIMTSS	00757	
		SX3	X3+1R0		SIMTSS	00758	
		LX6	6		SIMTSS	00759	
		BX6	X6+X3		SIMTSS	00760	
000532 5110001355 +		SA1	=4L A=		SIMTSS	00761	
					SIMTSS	00762	

	12616	BX6	X1+X6	SIMTSS	00763
	20606	LX6	6	SIMTSS	00764
000533 54661		SA6	A6+B1	SIMTSS	00765

000545	76610	STOPPPU	SX6	B1		SIMTSS	00787
	5162000006 C		SA6	F+B2		SIMTSS	00788
000546	0400000112 +		EQ	NEXTTP		SIMTSS	00789
000547	5110000000 X	RPN	SA1	=XPR		SIMTSS	00790
	73610		SX6	X1		SIMTSS	00791
000550	5162000000 C		SA6	A+B2		SIMTSS	00792
	0400000112 +		EQ	NEXTTP		SIMTSS	00793
000551	5112000002 C	EXN	SA1	Q+B2		SIMTSS	00794
	0301000554 +		ZR	X1,XJ	SENSE EXN	SIMTSS	00795
000552	5110000000 X		SA1	=XMONITOR		SIMTSS	00796
	0311000112 +		NZ	X1,NEXTTP		SIMTSS	00797
000553	74610		SX6	A1		SIMTSS	00798
	54610		SA6	A1	SET MONITOR ON	SIMTSS	00799
000554	5112000000 C	XJ	SA1	A+B2		SIMTSS	00800
	7271000000 X		SX7	X1+=XCENTRAL		SIMTSS	00801
000555	0100000000 X		RJ	=XXCHJP		SIMTSS	00802
000556	0400000112 +		EQ	NEXTTP		SIMTSS	00803
000557	43674	SETTRACE	MX6	60		SIMTSS	00804
	5162000006 C		SA6	F+B2	SET TRACE MODE	SIMTSS	00805
000560	0400000112 +		EQ	NEXTTP		SIMTSS	00806
000561	76600	CLRTRACE	SX6	B0		SIMTSS	00807
	5162000006 C		SA6	B2+F		SIMTSS	00808
000562	0400000112 +		EQ	NEXTTP		SIMTSS	00809
		*				SIMTSS	00810
000563	5112000002 C	LJM	SA1	B2+Q	PICK UP Q	SIMTSS	00811
	36651		IX6	X5+X1	FORM Q + M	SIMTSS	00812
	20660		LX6	60-12	12 BIT	SIMTSS	00813
000564	21660		AX6	60-12	1 S COMP	SIMTSS	00814
	5162000001 C		SA6	B2+P	SET P	SIMTSS	00815
000565	0400001151 +		EQ	ZRKNST	ZERO K, NO STORE	SIMTSS	00816
		*				SIMTSS	00817
000566	5112000002 C	RJM1	SA1	B2+Q	PICK UP Q	SIMTSS	00818
	36651		IX6	X5+X1	FORM Q + M	SIMTSS	00819
	20660		LX6	60-12	12 BIT	SIMTSS	00820
000567	21660		AX6	60-12	1 S COMP	SIMTSS	00821
	54610		SA6	A1	SET Q	SIMTSS	00822
	6150001145 +		SB5	ADVKNST		SIMTSS	00823
000570	0400001147 +		EQ	ADVP	ADVANCE P, ADVANCE K, NO STORE	SIMTSS	00824
		*				SIMTSS	00825
000571	5112000001 C	RJM2	SA1	B2+P		SIMTSS	00826
	15510		BX5	=X0*X1	STORE P	SIMTSS	00827
000572	5112000002 C		SA1	B2+Q		SIMTSS	00828
	73611		SX6	X1+B1		SIMTSS	00829
	20660		LX6	60-12		SIMTSS	00830
000573	21660		AX6	60-12		SIMTSS	00831
	5162000001 C		SA6	B2+P	SET P TO Q + 1 (12 BIT, 1 S COMP)	SIMTSS	00832
000574	0400001153 +		EQ	ZRKST	ZERO K, STORE	SIMTSS	00833
		*				SIMTSS	00834
000575	5110001341 +	UJN	SA1	OLDP	PICK UP ORIGINAL P	SIMTSS	00835
	5122000002 C		SA2	B2+Q	PICK UP Q	SIMTSS	00836
000576	20266		LX2	60-6	SIGN EXTEND Q	SIMTSS	00837
	21266		AX2	60-6		SIMTSS	00838
	36612		IX6	X1+X2		SIMTSS	00839
	20660		LX6	60-12		SIMTSS	00840

000577 21660
5162000001 C
000600 0400000112 +

AX6 60-12
SA6 B2+P
EQ NEXTPP

SIMTSS 00841
SIMTSS 00842
SIMTSS 00843

000601	5112000000 C	0301000575 +	* ZJN	SA1 ZR EQ	B2+A X1,UJN NEXTTP	SIMTSS 00844 SIMTSS 00845 SIMTSS 00846 SIMTSS 00847 SIMTSS 00848
000602	0400000112 +		* NJN	SA1 NZ EQ	B2+A X1,UJN NEXTTP	SIMTSS 00849 SIMTSS 00850 SIMTSS 00851 SIMTSS 00852
000603	5112000000 C	0311000575 +	* PJN	SA1 PL EQ	B2+A X1,UJN NEXTTP	SIMTSS 00853 SIMTSS 00854
000604	0400000112 +		* MJN	SA1 NG EQ	B2+A X1,UJN NEXTTP	SIMTSS 00855 SIMTSS 00856 SIMTSS 00857 SIMTSS 00858 SIMTSS 00859
000605	5112000000 C	0321000575 +	* SHN	SA1 LX1 AX1 SB5 MX2 SA3	B2+Q 60-6 60-6 X1 60-18 B2+A	SIMTSS 00860 SIMTSS 00861 SIMTSS 00862 SIMTSS 00863 SIMTSS 00864 SIMTSS 00865 SIMTSS 00866
000606	0400000112 +			NG BX3 BX4 LX4 BX3 LX4 BX3 LX6 BX6 LX6 AX6 SA6 EQ	X1,SHN1 -X2*X3 X3 60-18 X3+X4 60-18 X3+X4 B5,X3 -X2*X6 60-18 60-18 A3 NEXTTP	SIMTSS 00867 SIMTSS 00868 SIMTSS 00869 SIMTSS 00870 SIMTSS 00871 SIMTSS 00872 SIMTSS 00873 SIMTSS 00874 SIMTSS 00875 SIMTSS 00876 SIMTSS 00877 SIMTSS 00878
000607	5112000000 C	0331000575 +				SIMTSS 00879 SIMTSS 00880 SIMTSS 00881 SIMTSS 00882 SIMTSS 00883 SIMTSS 00884
000608	0400000112 +		* SHN1	LX6 SA6 EQ	B5,X3 A3 NEXTTP	
000609	5112000002 C	0400000651 +	* LMN	SA5 EQ	B2+Q LOGDIF	SIMTSS 00885 SIMTSS 00886 SIMTSS 00887
000610	0400000112 +		* LPN	SA5 EQ	B2+Q LOGPROD	SIMTSS 00888 SIMTSS 00889 SIMTSS 00890
000611	5112000002 C	14555	* SCN	SA5 BX5 EQ	B2+Q -X5 LOGPROD	SIMTSS 00891 SIMTSS 00892 SIMTSS 00893
000612	0400000666 +		* LDN	SA5 EQ	B2+Q LOAD	SIMTSS 00894 SIMTSS 00895 SIMTSS 00896 SIMTSS 00897

000625 5152000002 C
14555
000626 0400000641 +

LCN

SA5
BX5
EQ

B2+Q
-X5
LOAD

SIMTSS 00898
SIMTSS 00899
SIMTSS 00900

000627	5152000002 C	* ADN	SA5	B2+Q	SIMTSS	00901
	0400000643 +		EQ	ADD	SIMTSS	00902
000630	5152000002 C	* SBN	SA5	B2+Q	SIMTSS	00903
	0400000646 +		EQ	SUB	SIMTSS	00904
000631	5112000002 C	* LDC	SA1	B2+Q	SIMTSS	00905
	20114		LX1	12	SIMTSS	00906
	12515		BX5	X1+X5	SIMTSS	00907
000632	6150000641 +		SB5	LOAD	SIMTSS	00908
	0400001147 +		EQ	ADVP	SIMTSS	00909
000633	5112000002 C	* ADC	SA1	B2+Q	SIMTSS	00910
	20114		LX1	12	SIMTSS	00911
	12515		BX5	X1+X5	SIMTSS	00912
000634	6150000643 +		SB5	ADD	SIMTSS	00913
	0400001147 +		EQ	ADVP	SIMTSS	00914
000635	5112000002 C	* LPC	SA1	B2+Q	SIMTSS	00915
	20114		LX1	12	SIMTSS	00916
	12515		BX5	X1+X5	SIMTSS	00917
000636	6150000646 +		SB5	LOGPROD	SIMTSS	00918
	0400001147 +		EQ	ADVP	SIMTSS	00919
000637	5112000002 C	* LMC	SA1	B2+Q	SIMTSS	00920
	20114		LX1	12	SIMTSS	00921
	12515		BX5	X1+X5	SIMTSS	00922
000640	6150000651 +		SB5	LOGDIF	SIMTSS	00923
	0400001147 +		EQ	ADVP	SIMTSS	00924
000641	10655	* LOAD	BX6	X5	SIMTSS	00925
	20652		LX6	60-18	SIMTSS	00926
	21652		AX6	60-18	SIMTSS	00927
000642	5162000000 C		SA6	B2+A	SIMTSS	00928
	0400001151 +		EQ	ZRKNST	SIMTSS	00929
000643	5112000000 C	* ADD	SA1	B2+A	SIMTSS	00930
	20552		LX5	60-18	SIMTSS	00931
	21552		AX5	60-18	SIMTSS	00932
000644	36615		IX6	X1+X5	SIMTSS	00933
	20652		LX6	60-18	SIMTSS	00934
	21652		AX6	60-18	SIMTSS	00935
	54610		SA6	A1	SIMTSS	00936
000645	0400001151 +		EQ	ZRKNST	SIMTSS	00937
000646	5112000000 C	* SUB	SA1	B2+A	SIMTSS	00938
	20552		LX5	60-18	SIMTSS	00939
	21552		AX5	60-18	SIMTSS	00940
000647	37615		IX6	X1+X5	SIMTSS	00941
	20652		LX6	60-18	SIMTSS	00942
	21652		AX6	60-18	SIMTSS	00943
	54610		SA6	A1	SIMTSS	00944
000650	0400001151 +		EQ	ZRKNST	SIMTSS	00945

000651 5112000000 C
13615

*
LOGDIF SA1 B2+A
BX6 X1-X5

SIMTSS 00955
SIMTSS 00956
SIMTSS 00957

000652	21652	20652	LX6	60-18		SIMTSS	00958
	54610		AX6	60-18		SIMTSS	00959
	0400001151 +		SA6	A1		SIMTSS	00960
		*	EQ	ZRKNST		SIMTSS	00961
000653	5112000000 C	STORE	SA1	B2+A		SIMTSS	00962
	15510		BX5	-X0*X1		SIMTSS	00963
000654	0400001153 +		EQ	ZRKST		SIMTSS	00964
		*				SIMTSS	00965
000655	5112000000 C	RADD	SA1	B2+A		SIMTSS	00966
	63550		SB5	X5	(LESS THAN 18 BITS)	SIMTSS	00967
	73615		SX6	X1+B5		SIMTSS	00968
000656	54610		SA6	A1		SIMTSS	00969
	7160000345 +		SX6	K340		SIMTSS	00970
000657	5162000003 C		SA6	B2+K		SIMTSS	00971
	0400000112 +		EQ	NEXTPP		SIMTSS	00972
		*				SIMTSS	00973
000660	73651	RADD1	SX6	X5+B1		SIMTSS	00974
	5162000000 C		SA6	B2+A		SIMTSS	00975
000661	7160000345 +		SX6	K340		SIMTSS	00976
	5162000003 C		SA6	B2+K		SIMTSS	00977
000662	0400000112 +		EQ	NEXTPP		SIMTSS	00978
		*				SIMTSS	00979
000663	7265777776	RSUB1	SX6	X5-1		SIMTSS	00980
	5162000000 C		SA6	B2+A		SIMTSS	00981
000664	7160000345 +		SX6	K340		SIMTSS	00982
	5162000003 C		SA6	B2+K		SIMTSS	00983
000665	0400000112 +		EQ	NEXTPP		SIMTSS	00984
		*				SIMTSS	00985
000666	5112000000 C	LOGPRD	SA1	B2+A		SIMTSS	00986
	11615		BX6	X1*X5		SIMTSS	00987
	20652		LX6	60-18		SIMTSS	00988
000667	21652		AX6	60-18		SIMTSS	00989
	54610		SA6	A1		SIMTSS	00990
	0400001151 +		EQ	ZRKNST		SIMTSS	00991
000670	5110001326 +	CRD	SA1	C5F		SIMTSS	00992
	0311000112 +		NZ	X1,NEXTPP	SENSE CENTRAL BUSY	SIMTSS	00993
000671	76610		SX6	B1		SIMTSS	00994
	54610		SA6	A1		SIMTSS	00995
	5112000000 C		SA1	B2+A		SIMTSS	00996
000672	14611		BX6	-X1		SIMTSS	00997
	7266000000 X		SX6	X6=XCMSIZE		SIMTSS	00998
000673	0336001131 +		NG	X6,PPARITH		SIMTSS	00999
	5211000000 X		SA1	=XCENTRAL+X1		SIMTSS	01000
000674	10611		BX6	X1		SIMTSS	01001
	5160001321 +		SA6	C5		SIMTSS	01002
000675	0400001145 +		EQ	ADVKNST		SIMTSS	01003
000676	6150001325 +	CRD1	SB5	C4F		SIMTSS	01004
	6160001321 +		SB6	C5		SIMTSS	01005
000677	56150	CRDT	SA1	B5		SIMTSS	01006
	0311000112 +		NZ	X1,NEXTPP	SENSE NEXT STEP FULL	SIMTSS	01007
	76650		SX6	B5	SET NON ZERO	SIMTSS	01008
000700	54610		SA6	A1		SIMTSS	01009
	76600		SX6	B0		SIMTSS	01010
						SIMTSS	01011

000701	20114	54661	56160	SA6	A6+B1	SET C EMPTY	SIMTSS	01012
				SA1	B6		SIMTSS	01013
				LX1	12		SIMTSS	01014

	15510		BX5	-X0*X1		SIMTSS	01015
	10611		BX6	X1		SIMTSS	01016
	57661		SA6	B6=B1		SIMTSS	01017
000702	5112000003 C	ADV KQ	SA1	B2+K		SIMTSS	01018
	5122000002 C		SA2	B2+Q		SIMTSS	01019
000703	73611		SX6	X1+B1		SIMTSS	01020
	54610		SA6	A1		SIMTSS	01021
	73621		SX6	X2+B1		SIMTSS	01022
	54620		SA6	A2		SIMTSS	01023
000704	0400000110 +		EQ	MSTORE		SIMTSS	01024
000705	6150001324 +	CRD2	SB5	C3F		SIMTSS	01025
	6160001320 +		SB6	C4		SIMTSS	01026
000706	0400000677 +		EQ	CRDT		SIMTSS	01027
000707	6150001323 +	CRD3	SB5	C2F		SIMTSS	01028
	6160001317 +		SB6	C3		SIMTSS	01029
000710	0400000677 +		EQ	CRDT		SIMTSS	01030
000711	6150001322 +	CRD4	SB5	C1F		SIMTSS	01031
	6160001316 +		SB6	C2		SIMTSS	01032
000712	0400000677 +		EQ	CRDT		SIMTSS	01033
000713	5150001315 +	CRD5	SA5	C1	READ LAST ONE	SIMTSS	01034
	20514		LX5	I2		SIMTSS	01035
	76600		SX6	B0		SIMTSS	01036
000714	5160001322 +		SA6	C1F	FREE C1	SIMTSS	01037
	0400001153 +		EQ	ZRKST	ZERO K STORE	SIMTSS	01038
000715	5152000001 C	STOP	SA5	P+B2		SIMTSS	01039
	0400001142 +		EQ	ADV KST		SIMTSS	01040
000716	5112000003 C	CRM	SA1	B2+K		SIMTSS	01041
	73611		SX6	X1+B1		SIMTSS	01042
	54610		SA6	A1		SIMTSS	01043
000717	73650		SX6	X5		SIMTSS	01044
	5162000001 C		SA6	P+B2		SIMTSS	01045
000720	5110001326 +	CRMC	SA1	C5F		SIMTSS	01046
	0311000112 +		NZ	X1,NEXTPP		SIMTSS	01047
000721	5112000000 C		SA1	B2+A		SIMTSS	01048
	5221000000 X		SA2	X1=XCENTRAL	READ WORD	SIMTSS	01049
000722	73611		SX6	X1+B1	A = A+1	SIMTSS	01050
	54610		SA6	A1		SIMTSS	01051
	76610		SX6	B1		SIMTSS	01052
	54630		SA6	A3		SIMTSS	01053
000723	10622		BX6	X2	MOVE WORD JUST READ	SIMTSS	01054
	5160001321 +		SA6	C5		SIMTSS	01055
000724	0400001145 +		EQ	ADVKNST		SIMTSS	01056
000725	6150001325 +	CRM1	SB5	C4F		SIMTSS	01057
	6160001321 +		SB6	C5		SIMTSS	01058
000726	56150	CRMT	SA1	B5		SIMTSS	01059
	0311000112 +		NZ	X1,NEXTPP		SIMTSS	01060
	76610		SX6	B1		SIMTSS	01061
000727	54610		SA6	A1		SIMTSS	01062
	76600		SX6	B0		SIMTSS	01063
	54661		SA6	A6+B1	SET C EMPTY	SIMTSS	01064
	56160		SA1	B6		SIMTSS	01065
000730	20114		LX1	I2		SIMTSS	01066
	15510		BX5	-X0*X1		SIMTSS	01067
	10611		BX6	X1		SIMTSS	01068

000731 6150001142 * 57661
0400001147 *

SA6
SB5
EQ

B6-B1
ADVST
ADVP

ADVANCE P AND K

SIMTSS 01069
SIMTSS 01070
SIMTSS 01071

000732	6150001324 +	CRM2	SB5	C3F		SIMTSS	01072
	6160001320 +		SB6	C4		SIMTSS	01073
000733	0400000726 +		EQ	CRMT		SIMTSS	01074
000734	6150001323 +	CRM3	SB5	C2F		SIMTSS	01075
	6160001317 +		SB6	C3		SIMTSS	01076
000735	0400000726 +		EQ	CRMT		SIMTSS	01077
000736	6150001322 +	CRM4	SB5	C1F		SIMTSS	01078
	6160001316 +		SB6	C2		SIMTSS	01079
000737	0400000726 +		EQ	CRMT		SIMTSS	01080
000740	5150001315 +	CRM5	SA5	C1		SIMTSS	01081
	20514		LX5	12		SIMTSS	01082
	76600		SX6	B0		SIMTSS	01083
000741	5160001322 +		SA6	C1F	FREE C1	SIMTSS	01084
	5112000002 C		SA1	Q+B2		SIMTSS	01085
000742	7261777776		SX6	X1-1	Q = Q - 1	SIMTSS	01086
	54610		SA6	A1		SIMTSS	01087
000743	0306000745 +		ZR	X6,CRMD		SIMTSS	01088
	7160000432 +		SX6	K612B		SIMTSS	01089
000744	5162000003 C		SA6	B2+K		SIMTSS	01090
	0400000110 +		EQ	MSTORE		SIMTSS	01091
000745	7160000474 +	CRMD	SX6	K733		SIMTSS	01092
	5162000003 C		SA6	B2+K	K = 713	SIMTSS	01093
000746	0400000110 +		EQ	MSTORE		SIMTSS	01094
000747	5110001334 +	CWD1	SA1	D1F		SIMTSS	01095
	0311000112 +		NZ	X1,NEXTTP		SIMTSS	01096
000750	73650		SX6	X5		SIMTSS	01097
	5160001327 +		SA6	D1		SIMTSS	01098
	76610		SX6	B1		SIMTSS	01099
000751	5160001334 +		SA6	D1F		SIMTSS	01100
	0400001144 +		EQ	ADVKNST		SIMTSS	01101
000752	6150001335 +	CWD2	SB5	D2F		SIMTSS	01102
	6160001330 +		SB6	D2		SIMTSS	01103
000753	56150	CWD3	SA1	B5		SIMTSS	01104
	0311000112 +		NZ	X1,NEXTTP		SIMTSS	01105
	57161		SA1	B6-B1		SIMTSS	01106
000754	20114		LX1	12		SIMTSS	01107
	12615		BX6	X1+X5		SIMTSS	01108
	56660		SA6	B6		SIMTSS	01109
	76610		SX6	B1		SIMTSS	01110
000755	56650		SA6	B5		SIMTSS	01111
	76600		SX6	B0		SIMTSS	01112
	57651		SA6	B5-B1		SIMTSS	01113
000756	0400001144 +		EQ	ADVKNST		SIMTSS	01114
000757	6150001336 +	CWD3	SB5	D3F		SIMTSS	01115
	6160001331 +		SB6	D3		SIMTSS	01116
000760	0400000753 +		EQ	CWD4		SIMTSS	01117
000761	6150001337 +	CWD4	SB5	D4F		SIMTSS	01118
	6160001332 +		SB6	D4		SIMTSS	01119
000762	0400000753 +		EQ	CWD5		SIMTSS	01120
000763	6150001340 +	CWD5	SB5	D5F		SIMTSS	01121
	6160001333 +		SB6	D5		SIMTSS	01122
000764	0400000753 +		EQ	CWD6		SIMTSS	01123
000765	5110001333 +	CWD6	SA1	D5		SIMTSS	01124
	76600		SX6	B0		SIMTSS	01125

000766 5160001340 +
5122000000 C
000767 14622

SA6 D5F
SA2 B2+A
BX6 -X2

SIMTSS 01126
SIMTSS 01127
SIMTSS 01128

	7266000000 X		SX6	X6+=XCMSIZE		SIMTSS	01129
000770	0336001131 +		NG	X6,PPARITH		SIMTSS	01130
	10611		BX6	X1		SIMTSS	01131
000771	5262000000 X		SA6	=XCENTRAL+X2	STORE WORD	SIMTSS	01132
	0400001151 +		EQ	ZRKNST		SIMTSS	01133
000772	73650	SETP	SX6	X5		SIMTSS	01134
	5162000001 C		SA6	P+B2		SIMTSS	01135
000773	0400001145 +		EQ	ADVKNST		SIMTSS	01136
000774	5110001334 +	CWM1	SA1	D1F		SIMTSS	01137
	0311000112 +		NZ	X1,NEXTTP		SIMTSS	01138
000775	73650		SX6	X5		SIMTSS	01139
	5160001327 +		SA6	D1		SIMTSS	01140
	76610		SX6	B1		SIMTSS	01141
000776	5160001334 +		SA6	D1F		SIMTSS	01142
	6150001145 +		SB5	ADVKNST		SIMTSS	01143
000777	0400001147 +		EQ	ADVP		SIMTSS	01144
001000	6150001335 +	CWM2	SB5	D2F		SIMTSS	01145
	6160001330 +		SB6	D2		SIMTSS	01146
001001	56150	CWMT	SA1	B5		SIMTSS	01147
	0311000112 +		NZ	X1,NEXTTP		SIMTSS	01148
	57161		SA1	B6-B1		SIMTSS	01149
001002	20114		LX1	12		SIMTSS	01150
	12615		BX6	X1+X5		SIMTSS	01151
	56660		SA6	B6		SIMTSS	01152
	76610		SX6	B1		SIMTSS	01153
001003	56650		SA6	B5		SIMTSS	01154
	76600		SX6	B0		SIMTSS	01155
	57651		SA6	B5-B1		SIMTSS	01156
001004	6150001145 +		SB5	ADVKNST		SIMTSS	01157
	0400001147 +		EQ	ADVP		SIMTSS	01158
001005	6150001336 +	CWM3	SB5	D3F		SIMTSS	01159
	6160001331 +		SB6	D3		SIMTSS	01160
001006	0400001001 +		EQ	CWMT		SIMTSS	01161
001007	6150001337 +	CWM4	SB5	D4F		SIMTSS	01162
	6160001332 +		SB6	D4		SIMTSS	01163
001010	0400001001 +		EQ	CWMT		SIMTSS	01164
001011	6150001340 +	CWM5	SB5	D5F		SIMTSS	01165
	6160001333 +		SB6	D5		SIMTSS	01166
001012	0400001001 +		EQ	CWMT		SIMTSS	01167
001013	5110001333 +	CWM6	SA1	D5		SIMTSS	01168
	76600		SX6	B0		SIMTSS	01169
001014	5160001340 +		SA6	D5F		SIMTSS	01170
	5122000000 C		SA2	B2+A		SIMTSS	01171
001015	14622		BX6	-X2		SIMTSS	01172
	7266000000 X		SX6	X6+=XCMSIZE		SIMTSS	01173
001016	0336001131 +		NG	X6,PPARITH		SIMTSS	01174
	10611		BX6	X1		SIMTSS	01175
001017	5262000000 X		SA6	=XCENTRAL+X2		SIMTSS	01176
	73621		SX6	X2+B1		SIMTSS	01177
	54620		SA6	A2	A = A + 1	SIMTSS	01178
001020	5112000002 C		SA1	B2+Q		SIMTSS	01179
	7261777776		SX6	X1-1		SIMTSS	01180
001021	54610		SA6	A1		SIMTSS	01181
	0306001024 +		ZR	X6,CWMD		SIMTSS	01182

001022 7160000451 +
5162000003 C
001023 0400000112 +

SX6 K633
SA6 B2+K
EQ NEXTPP

SIMTSS 01183
SIMTSS 01184
SIMTSS 01185

001024	7160000474 +	CWMD	SX6	K733		SIMTSS	01186
	5162000003 C		SA6	B2+K		SIMTSS	01187
001025	0400000112 +		EQ	NEXTPP		SIMTSS	01188
001026	5112000002 C	AJM	SA1	Q+B2		SIMTSS	01189
	5211000000 C		SA1	CHANSTAT+X1		SIMTSS	01190
001027	0351001042 +		OR	X1,JUMP		SIMTSS	01191
	6150001151 +		SB5	ZRKNST		SIMTSS	01192
001030	0400001147 +		EQ	ADVP		SIMTSS	01193
001031	5112000002 C	IJM	SA1	Q+B2		SIMTSS	01194
	5211000000 C		SA1	CHANSTAT+X1		SIMTSS	01195
001032	0341001042 +		IR	X1,JUMP		SIMTSS	01196
	6150001151 +		SB5	ZRKNST		SIMTSS	01197
001033	0400001147 +		EQ	ADVP		SIMTSS	01198
001034	5112000002 C	FJM	SA1	Q+B2		SIMTSS	01199
	5211000000 C		SA1	CHANSTAT+X1		SIMTSS	01200
001035	0331001042 +		NG	X1,JUMP		SIMTSS	01201
	6150001151 +		SB5	ZRKNST		SIMTSS	01202
001036	0400001147 +		EQ	ADVP		SIMTSS	01203
001037	5112000002 C	EJM	SA1	Q+B2		SIMTSS	01204
	5211000000 C		SA1	CHANSTAT+X1		SIMTSS	01205
001040	0321001042 +		PL	X1,JUMP		SIMTSS	01206
	6150001151 +		SB5	ZRKNST		SIMTSS	01207
001041	0400001147 +		EQ	ADVP		SIMTSS	01208
001042	73650	JUMP	SX6	X5		SIMTSS	01209
	5162000001 C		SA6	B2+P		SIMTSS	01210
001043	0400001151 +		EQ	ZRKNST		SIMTSS	01211
001044	5112000002 C	IAN	SA1	B2+Q		SIMTSS	01212
	7221777763		SX2	X1-12		SIMTSS	01213
001045	0322001051 +		PL	X2,READCLK		SIMTSS	01214
	5221000000 C		SA2	CHANSTAT+X1		SIMTSS	01215
001046	0322000112 +		PL	X2,NEXTPP		SIMTSS	01216
	5231000016 C		SA3	CHANDATA+X1		SIMTSS	01217
001047	15630		BX6	-X0*X3		SIMTSS	01218
	5162000000 C		SA6	A+B2		SIMTSS	01219
	14622		BX6	-X2		SIMTSS	01220
001050	54620		SA6	A2	MAKE CHANNEL EMPTY	SIMTSS	01221
	0400001151 +		EQ	ZRKNST		SIMTSS	01222
001051	5110000000 X	READCLK	SA1	=XPPCLOCK		SIMTSS	01223
	27101		PX1	X1		SIMTSS	01224
001052	5120001352 +		SA2	=10.		SIMTSS	01225
	44112		FX1	X1/X2		SIMTSS	01226
	26161		UX1	X1,B6		SIMTSS	01227
001053	22161		LX1	X1,B6		SIMTSS	01228
	15610		BX6	-X0*X1		SIMTSS	01229
	5162000000 C		SA6	A+B2	STORE CLOCK VALUE IN A REGISTER	SIMTSS	01230
001054	0400001151 +		EQ	ZRKNST		SIMTSS	01231
001055	5112000002 C	IAM	SA1	B2+Q		SIMTSS	01232
	5221000000 C		SA2	CHANSTAT+X1		SIMTSS	01233
001056	0342001065 +		IR	X2,ZRSTORE		SIMTSS	01234
	14611		BX6	-X1		SIMTSS	01235
001057	7266000000 X		SX6	X6+=XCMSIZE		SIMTSS	01236
	0336001131 +		NG	X6,PPARITH		SIMTSS	01237
001060	0322000112 +		PL	X2,NEXTPP		SIMTSS	01238
	14622		BX6	-X2	CHAN = EMPTY	SIMTSS	01239

001061 5251000016 C 54620
5122000000 C

SA6 A2
SA5 X1+CHANDATA
SA2 B2+A

SIMTSS 01240
SIMTSS 01241
SIMTSS 01242

001062	7262777776		SX6	X2-1		SIMTSS	01243
	54620		SA6	A2		SIMTSS	01244
001063	0306001142 +		ZR	X6,ADVST		SIMTSS	01245
	6150000110 +		SB5	MSTORE		SIMTSS	01246
001064	0400001147 +		EQ	ADVP		SIMTSS	01247
001065	76500	ZRSTOR	SX5	B0		SIMTSS	01248
	7160000474 +		SX6	K733		SIMTSS	01249
001066	5162000003 C		SA6	B2+K		SIMTSS	01250
	0400000110 +		EQ	MSTORE		SIMTSS	01251
001067	73651	LDP	SX6	X5+B1		SIMTSS	01252
	5162000001 C		SA6	B2+P		SIMTSS	01253
001070	0400001151 +		EQ	ZRKNST		SIMTSS	01254
001071	5112000002 C	OAN	SA1	B2+Q		SIMTSS	01255
	5221000000 C		SA2	CHANSTAT+X1		SIMTSS	01256
001072	0332000112 +		NG	X2,NEXTTP		SIMTSS	01257
	0342000112 +		IR	X2,NEXTTP		SIMTSS	01258
001073	5132000000 C		SA3	B2+A		SIMTSS	01259
	14622		BX6	-X2		SIMTSS	01260
	54620		SA6	A2	CHANNEL = EMPTY	SIMTSS	01261
001074	73630		SX6	X3		SIMTSS	01262
	5261000016 C		SA6	CHANDATA+X1		SIMTSS	01263
001075	0400001151 +		EQ	ZRKNST		SIMTSS	01264
001076	5112000002 C	OAM	SA1	B2+Q		SIMTSS	01265
	5221000000 C		SA2	CHANSTAT+X1		SIMTSS	01266
001077	0342001105 +		IR	X2,CUTOFF		SIMTSS	01267
	0332000112 +		NG	X2,NEXTTP	SENSE CHANNEL FULL	SIMTSS	01268
001100	73650		SX6	X5		SIMTSS	01269
	5261000016 C		SA6	CHANDATA+X1		SIMTSS	01270
	14622		BX6	-X2		SIMTSS	01271
001101	54620		SA6	A2	CHANNEL = FULL	SIMTSS	01272
	5112000000 C		SA1	B2+A		SIMTSS	01273
001102	7261777776		SX6	X1-1		SIMTSS	01274
	54610		SA6	A1		SIMTSS	01275
001103	0306001142 +		ZR	X6,ADVST		SIMTSS	01276
	6150000110 +		SB5	MSTORE		SIMTSS	01277
001104	0400001147 +		EQ	ADVP		SIMTSS	01278
001105	7160000474 +	CUTOFF	SX6	K733		SIMTSS	01279
	5162000003 C		SA6	B2+K		SIMTSS	01280
001106	0400000112 +		EQ	NEXTTP		SIMTSS	01281
001107	5112000002 C	ACN	SA1	B2+Q		SIMTSS	01282
	5221000000 C		SA2	CHANSTAT+X1		SIMTSS	01283
001110	0352000112 +		OR	X2,NEXTTP		SIMTSS	01284
001111	7160003777	FLIPCHAN	SX6	3777B		SIMTSS	01285
	20660		LX6	48		SIMTSS	01286
	13662		BX6	X6-X2		SIMTSS	01287
001112	54620		SA6	A2	ACTIVATE CHANNEL	SIMTSS	01288
	0400001151 +		EQ	ZRKNST		SIMTSS	01289
001113	5112000002 C	DCN	SA1	B2+Q		SIMTSS	01290
	5221000000 C		SA2	CHANSTAT+X1		SIMTSS	01291
001114	0342000112 +		IR	X2,NEXTTP		SIMTSS	01292
	0400001111 +		EQ	FLIPCHAN		SIMTSS	01293
001115	5122000002 C	FAN	SA2	B2+Q		SIMTSS	01294
	5212000000 C		SA1	CHANSTAT+X2		SIMTSS	01295
001116	0351000112 +		OR	X1,NEXTTP		SIMTSS	01296

5152000000 C		SA5	B2+A	SIMTSS	01297	
001117	0400001123 +	EQ	FCN	SIMTSS	01298	
001120	5122000002 C	FNC	SA2	B2+Q	SIMTSS	01299

001121	0351000112	5212000000 C	SA1	CHANSTAT+X2		SIMTSS	01300
		6150001123 +	OR	X1,NEXTPP		SIMTSS	01301
001122	0400001147		SB5	FCN		SIMTSS	01302
001123	5232000034	C	EQ	ADVP		SIMTSS	01303
		FCN	SA3	X2+CHANFNC		SIMTSS	01304
		63530	SB5	X3		SIMTSS	01305
001124	6160001151		SB6	ZRKNST		SIMTSS	01306
		0450001126 +	ZR	B5,HESSPCL		SIMTSS	01307
001125	0250000000		JP	B5	CALL FUNCTION PROCESSOR FOR CHANNEL	SIMTSS	01308
001126	7160003777		SX6	3777B		SIMTSS	01309
		HESSPCL	BX6	-X6		SIMTSS	01310
		14666	LX6	48		SIMTSS	01311
		20660	SA6	CHANSTAT+X2		SIMTSS	01312
001127	5262000000	C	SX6	X5		SIMTSS	01313
		73650	SA6	CHANDATA+X2		SIMTSS	01314
001130	5262000016	C	EQ	ZRKNST		SIMTSS	01315
		0400001151 +	SA1	=10HPPU CM REF		SIMTSS	01316
001131	5110001356		SA2	=10HERENCE ERR		SIMTSS	01317
		PPARITH	EQ	=XTHEEND		SIMTSS	01318
		5120001357 +					
001132	0400000000	X					

001133	10655		*	SETQ	BX6	X5		SIMTSS	01320
	20660				LX6	60-12		SIMTSS	01321
	21660				AX6	60-12		SIMTSS	01322
001134	5162000002	C			SA6	B2+Q		SIMTSS	01323
	0400001145	+			EQ	ADVKNST		SIMTSS	01324
			*					SIMTSS	01325
001135	5112000002	C		MINDEX	SA1	B2+Q		SIMTSS	01326
	20560				LX5	60-12		SIMTSS	01327
	21560				AX5	60-12		SIMTSS	01328
001136	36615				IX6	X1+X5		SIMTSS	01329
	20660				LX6	60-12		SIMTSS	01330
	21660				AX6	60-12		SIMTSS	01331
	54610				SA6	A1		SIMTSS	01332
001137	6150001145	+			SB5	ADVKNST		SIMTSS	01333
	0400001147	+			EQ	ADVP		SIMTSS	01334
			*					SIMTSS	01335
001140	5112000002	C		DTEST	SA1	B2+Q		SIMTSS	01336
	0311000112	+			NZ	X1-NEXTTP	CHECK Q	SIMTSS	01337
001141	0400001145	+			EQ	ADVKNST	ADV K ON ZERO Q, NO STORE	SIMTSS	01338
			*					SIMTSS	01339
001142	5112000003	C		ADVKNST	SA1	B2+K		SIMTSS	01340
	73611				SX6	X1+B1		SIMTSS	01341
	54610				SA6	A1		SIMTSS	01342
001143	0400000110	+			EQ	MSTORE		SIMTSS	01343
001144	5112000002	C		ADVKNST	SA1	B2+Q		SIMTSS	01344
	73611				SX6	X1+B1		SIMTSS	01345
	54610				SA6	A1		SIMTSS	01346
001145	5112000003	C		ADVKNST	SA1	B2+K	ADVANCE K, NO STORE	SIMTSS	01347
	73611				SX6	X1+B1		SIMTSS	01348
	54610				SA6	A1		SIMTSS	01349
001146	0400000112	+			EQ	NEXTTP		SIMTSS	01350
			*					SIMTSS	01351
001147	5112000001	C		ADVP	SA1	B2+P	ADD	SIMTSS	01352
	73611				SX6	X1+B1	1	SIMTSS	01353
	20660				LX6	60-12	12 BIT	SIMTSS	01354
001150	21660				AX6	60-12	1 S COMP	SIMTSS	01355
	54610				SA6	A1	TO P	SIMTSS	01356
	0250000000				JP	B5		SIMTSS	01357
			*					SIMTSS	01358
001151	7160000327	+		ZRKNST	SX6	K000	ZERO K, NO STORE	SIMTSS	01359
	5162000003	C			SA6	B2+K		SIMTSS	01360
001152	0400000112	+			EQ	NEXTTP		SIMTSS	01361
			*					SIMTSS	01362
001153	7160000327	+		ZRKST	SX6	K000	ZERO K, STORE	SIMTSS	01363
	5162000003	C			SA6	B2+K		SIMTSS	01364
001154	0400000110	+			EQ	MSTORE		SIMTSS	01365
								SIMTSS	01366

			ENTRY	PPUDUMP		SIMTSS	
001155	00000000000000000000	PPUDUMP	DATA	0		01368	
001156	0100000000 X		RJ	PRINTL		01369	
001157	0100000000 X		RJ	PRINTL		01370	
001160	5110001360 +		SA1	=10H0PPU DUMP		01371	
	10611		BX6	X1		01372	
001161	5160000000 X		SA6	LINE		01373	
	0100000000 X		RJ	PRINTL		01374	
001162	6110000011		SB1	9		01375	
	6130000110		SB3	9*NREGS		01376	
001163	76600	PPDL	SX6	B0		01377	
	5113000001 C		SA1	P+B3		01378	
	10711		BX7	X1		01379	
001164	5173000007 C		SA7	PCHARS+B3		01380	
	5163000006 C		SA6	F+B3	TURN PP ON FOR DUMP	01381	
001165	5163000001 C		SA6	P+B3		01382	
	7160010000		SX6	4096		01383	
001166	5163000000 C		SA6	A+B3		01384	
	7160000473 +		SX6	K732		01385	
001167	5163000003 C		SA6	K+B3		01386	
	7160003777		SX6	3777B		01387	
001170	20660		LX6	48		01388	
	5161000000 C		SA6	CHANSTAT+B1		01389	
	76610		SX6	B1		01390	
001171	5163000002 C		SA6	Q+B3		01391	
	6111777776		SB1	B1-1		01392	
001172	6133777767		SB3	B3-NREGS		01393	
	0610001163 +		PL	B1,PPDL		01394	
001173	76600		SX6	B0		01395	
	5160001344 +		SA6	=SDUMPP		01396	
001174	5160001343 +		SA6	=SMAXP		01397	
	7160777776		SX6	-1		01398	
001175	5160001342 +		SA6	=SPPNUM		01399	
	0100000023 +		RJ	PPUSIM		01400	
001176	0400001243 +		EQ	PPDONE-1		01401	
001177	0100000023 +	PPDL2	RJ	PPUSIM		01402	
001200	5110001363 +		SA1	=10H		01403	
	10611		BX6	X1		01404	
001201	5160000000 X		SA6	LINE		01405	
	5066000001		SA6	A6+1		01406	
001202	5066000001		SA6	A6+1		01407	
	5150001342 +		SA5	PPNUM		01408	
001203	5225000000 C		SA2	X5+CHANSTAT		01409	
	0322001244 +		PL	X2,PPDONE		01410	
001204	5235000016 C		SA3	X5+CHANDATA		01411	
	27505		PX5	X5		01412	
001205	7140000010		SX4	NREGS		01413	
	27404		PX4	X4		01414	
	42554		DX5	X5*X4		01415	
001206	14622		BX6	-X2		01416	
	54620		SA6	A2		01417	
	73630		SX6	X3		01418	
001207	5140001344 +		SA4	DUMPP		01419	
	5264001275 +		SA6	DUMPL+X4		01420	
						01421	

001210 7264000001

54640

21603

SX6

SA6

AX6

X4+1

A4

3

SIMTSS 01422

SIMTSS 01423

SIMTSS 01424

001211	0306001177 +		ZR	X6,PPDL2		SIMTSS	01425
	76600		SX6	B0		SIMTSS	01426
	66300		SB3	B0		SIMTSS	01427
001212	54660		SA6	A6		SIMTSS	01428
	6110000007		SB1	7		SIMTSS	01429
001213	5111001275 +	CHECKL	SA1	DUMPL+B1		SIMTSS	01430
	5121001305 +		SA2	OL+B1		SIMTSS	01431
001214	37212		IX2	X1-X2		SIMTSS	01432
	73610		SX6	X1		SIMTSS	01433
	54620		SA6	A2		SIMTSS	01434
001215	0302001216 +		ZR	X2,CHECKLL		SIMTSS	01435
	6130000001		SB3	1		SIMTSS	01436
001216	6111777776	CHECKLL	SB1	B1-1		SIMTSS	01437
	0610001213 +		PL	B1,CHECKL		SIMTSS	01438
001217	0530001222 +		NZ	B3,NOTEQ		SIMTSS	01439
	5215000001 C		SA1	X5+P		SIMTSS	01440
001220	7211777776		SX1	X1-1		SIMTSS	01441
	73610		SX6	X1		SIMTSS	01442
001221	5160001343 +		SA6	=SMAXP		SIMTSS	01443
	0400001177 +		EQ	PPDL2		SIMTSS	01444
001222	5110001343 +	NOTEQ	SA1	MAXP		SIMTSS	01445
	0301001234 +		ZR	X1,NOTDUPL		SIMTSS	01446
001223	0100001267 +		RJ	OCTBCD		SIMTSS	01447
001224	5110001361 +		SA1	=10HADDRESSES		SIMTSS	01448
	5120001362 +		SA2	=10HUP THRU		SIMTSS	01449
001225	5160000003 X		SA6	LINE+3		SIMTSS	01450
	10611		BX6	X1		SIMTSS	01451
	10722		BX7	X2		SIMTSS	01452
001226	5160000001 X		SA6	LINE+1		SIMTSS	01453
	5170000002 X		SA7	LINE+2		SIMTSS	01454
001227	0100000000 X		RJ	PRINTL		SIMTSS	01455
001230	76600		SX6	B0		SIMTSS	01456
	5160001343 +		SA6	MAXP		SIMTSS	01457
001231	5150001342 +		SA5	PPNUM		SIMTSS	01458
	7140000010		SX4	NREGS		SIMTSS	01459
001232	27404		PX4	X4		SIMTSS	01460
	27535		PX5	X5		SIMTSS	01461
	42554		DX5	X5*X4		SIMTSS	01462
001233	5215000006 C		SA1	F+X5		SIMTSS	01463
	0311001243 +		NZ	X1,PPDONE-1		SIMTSS	01464
001234	5215000001 C	NOTDUPL	SA1	P+X5	GET P	SIMTSS	01465
	72117777767		SX1	X1-8		SIMTSS	01466
001235	0100001267 +		RJ	OCTBCD	CONVERT ADDRESS	SIMTSS	01467
001236	5160000000 X		SA6	LINE		SIMTSS	01468
	6170000007		SB7	7		SIMTSS	01469
001237	5117001275 +	CONVL	SA1	DUMPL+B7		SIMTSS	01470
	0100001267 +		RJ	OCTBCD		SIMTSS	01471
001240	5167000001 X		SA6	LINE+1+B7		SIMTSS	01472
	6177777776		SB7	B7-1		SIMTSS	01473
001241	0670001237 +		PL	B7,CONVL		SIMTSS	01474
	0100000000 X		RJ	PRINTL		SIMTSS	01475
001242	0400001177 +		EQ	PPDL2		SIMTSS	01476
001243	5150001342 +		SA5	PPNUM		SIMTSS	01477
001244	7170000001	PPDONE	SX7	1		SIMTSS	01478

001245 7160000010 0335001250 +
27505

NG X5,PP0DMP
SX6 NREGS
PX5 X5

SIMTSS 01479
SIMTSS 01480
SIMTSS 01481

Address	Value	Label	Operation	Comment	Address	Value	Label	Operation	Comment
001246	42656	27606	PX6	X6				SIMTSS	01482
			DX6	X5*X6				SIMTSS	01483
	5276000006 C		SA7	F+X6	TURN PP OFF			SIMTSS	01484
001247	5110001343 +		SA1	MAXP				SIMTSS	01485
	0311001222 +		NZ	X1,NOTEQ				SIMTSS	01486
001250		PP0DMP	BSS	0				SIMTSS	01487
001250	7265000001		SX6	X5+1				SIMTSS	01488
	54650		SA6	A5				SIMTSS	01489
001251	0100000000 X		RJ	PRINTL				SIMTSS	01490
001252	0100000000 X		RJ	PRINTL				SIMTSS	01491
001253	5110001342 +		SA1	PPNUM				SIMTSS	01492
	5120001363 +		SA2	=9L				SIMTSS	01493
001254	7261000033		SX6	X1+1R0				SIMTSS	01494
	36662		IX6	X6+X2				SIMTSS	01495
001255	7211777765		SX1	X1-10				SIMTSS	01496
	0321001155 +		PL	X1,PPUDUMP				SIMTSS	01497
001256	5160000000 X		SA6	=XLINE				SIMTSS	01498
	5110001342 +		SA1	PPNUM				SIMTSS	01499
001257	7120000010		SX2	NREGS				SIMTSS	01500
	27101		PX1	X1				SIMTSS	01501
	27202		PX2	X2				SIMTSS	01502
001260	42221		DX2	X2*X1				SIMTSS	01503
	5212000007 C		SA1	X2+PCHARS				SIMTSS	01504
001261	0100001267 +		RJ	OCTBCD				SIMTSS	01505
001262	5120001364 +		SA2	=6L P=				SIMTSS	01506
	43344		MX3	36				SIMTSS	01507
	15663		BX6	-X3*X6				SIMTSS	01508
001263	12662		BX6	X6+X2				SIMTSS	01509
	5160000001 X		SA6	LINE+1				SIMTSS	01510
001264	0100000000 X		RJ	PRINTL				SIMTSS	01511
001265	0100000000 X		RJ	PRINTL				SIMTSS	01512
001266	0400001177 +		EQ	PPDL2				SIMTSS	01513
001267	00000000000000000000	OCTBCD	DATA	0				SIMTSS	01514
001270	5120001365 +		SA2	=10H 0000				SIMTSS	01515
	43071		MX0	57				SIMTSS	01516
	15310		BX3	-X0*X1				SIMTSS	01517
001271	36632		IX6	X3+X2				SIMTSS	01518
	20003		LX0	3				SIMTSS	01519
	15310		BX3	-X0*X1				SIMTSS	01520
	20303		LX3	3				SIMTSS	01521
001272	36663		IX6	X6+X3				SIMTSS	01522
	20003		LX0	3				SIMTSS	01523
	15310		BX3	-X0*X1				SIMTSS	01524
	20306		LX3	6				SIMTSS	01525
001273	36663		IX6	X6+X3				SIMTSS	01526
	20003		LX0	3				SIMTSS	01527
	15310		BX3	-X0*X1				SIMTSS	01528
	20311		LX3	9				SIMTSS	01529
001274	36663		IX6	X6+X3				SIMTSS	01530
	0400001267 +		EQ	OCTBCD				SIMTSS	01531
001275		DUMPL	BSSZ	8				SIMTSS	01532
001305		OL	BSSZ	8				SIMTSS	01533

001315	00000000000000000000	C1			SIMTSS	01535
001316	00000000000000000000	C2			SIMTSS	01536
001317	00000000000000000000	C3			SIMTSS	01537
001320	00000000000000000000	C4			SIMTSS	01538
001321	00000000000000000000	C5			SIMTSS	01539
001322	00000000000000000000	C1F			SIMTSS	01540
001323	00000000000000000000	C2F			SIMTSS	01541
001324	00000000000000000000	C3F			SIMTSS	01542
001325	00000000000000000000	C4F			SIMTSS	01543
001326	00000000000000000000	C5F			SIMTSS	01544
001327	00000000000000000000	D1			SIMTSS	01545
001330	00000000000000000000	D2			SIMTSS	01546
001331	00000000000000000000	D3			SIMTSS	01547
001332	00000000000000000000	D4			SIMTSS	01548
001333	00000000000000000000	D5			SIMTSS	01549
001334	00000000000000000000	D1F			SIMTSS	01550
001335	00000000000000000000	D2F			SIMTSS	01551
001336	00000000000000000000	D3F			SIMTSS	01552
001337	00000000000000000000	D4F			SIMTSS	01553
001340	00000000000000000000	D5F			SIMTSS	01554
		USE	/CHANS/		SIMTSS	01555
000000		CHANSTAT	BSSZ	14	SIMTSS	01556
000016		CHANDATA	BSSZ	14	SIMTSS	01557
000034		CHANFNC	BSS	14	SIMTSS	01558
		USE	*		SIMTSS	01559
		*			SIMTSS	01560
001341		OLDP	BSSZ	1	SIMTSS	01561
		*			SIMTSS	01562
		USE	/PPU/		SIMTSS	01563
		*			SIMTSS	01564
000000		A	BSSZ	1	SIMTSS	01565
000001		P	BSSZ	1	SIMTSS	01566
000002		Q	BSSZ	1	SIMTSS	01567
000003		K	BSSZ	1	SIMTSS	01568
000004		Z	BSSZ	1	SIMTSS	01569
000005		COL	BSSZ	1	SIMTSS	01570
000006	00000000000000000001	F	DATA	1	SIMTSS	01571
000007	00000055205400000000	PCHARS	VFD	18/0,18/3H P=,24/0	SIMTSS	01572
000010		*			SIMTSS	01573
	0000010	NREGS	EQU	*=A	SIMTSS	01574
		*			SIMTSS	01575
	0000000	NUM	SET	0	SIMTSS	01576
	000011		DUP	9,3	SIMTSS	01577
			BSSZ	NREGS-2	SIMTSS	01578
			DATA	1	SIMTSS	01579
			VFD	18/0,18/3H P=,24/0	SIMTSS	01580
000120		*			SIMTSS	01581
	0000120 C	PMEM	EQU	*	SIMTSS	01582
000120			BSSZ	8192	SIMTSS	01583
			USE	*	SIMTSS	01584
001366			END		SIMTSS	01585

SYMBOLIC REFERENCE TABLE

A	0000000	PPU	000006,	000517,	000550,	000554,	000601,	000603,	000605,	000607,	000612,
			000642,	000643,	000646,	000651,	000653,	000655,	000660,	000663,	000666,
			000671,	000721,	000766,	001014,	001047,	001053,	001061,	001073,	001101,
			001116,	001166,	000010						
ACN	0001107	PROGRAM*	000475								
ADC	0000633	PROGRAM*	000336								
ADD	0000643	PROGRAM*	000342,	000354,	000376,	000627,	000634				
ADN	0000627	PROGRAM*	000245								
ADVKNST	0001145	PROGRAM*	000567,	000675,	000724,	000773,	000776,	001004,	001134,	001137,	001141
ADVKGNST	0001144	PROGRAM*	000751,	000756							
ADVKST	0001142	PROGRAM*	000715,	000731,	001063,	001103					
ADVP	0001147	PROGRAM*	000570,	000632,	000634,	000636,	000640,	000731,	000777,	001004,	001030,
			001033,	001036,	001041,	001064,	001104,	001122,	001137		
AJM	0001026	PROGRAM*	000457								
B2S	0001346	PROGRAM*	000536,	000541							
B4S	0001347	PROGRAM*	000117,	000121,	000537,	000541					
B5S	0001345	PROGRAM*	000540,	000542							
CALLB5	0000544	PROGRAM*	000510,	000535							
CDNE	0000042	PROGRAM*	000036								
CENTRAL	0000000	EXTERNAL*	000554,	000673,	000721,	000771,	001017				
CHANDATA	0000016	CHANS	001046,	001061,	001074,	001100,	001130,	001204			
CHANFNC	0000034	CHANS	001123								
CHANSTAT	0000000	CHANS	000011,	000017,	000030,	001026,	001031,	001034,	001037,	001045,	001055,
			001071,	001076,	001107,	001113,	001115,	001120,	001127,	001170,	001203
CHECKL	0001213	PROGRAM*	001216								
CHECKLL	0001216	PROGRAM*	001215								
CLRTRACE	0000561	PROGRAM*	000254								
CMSIZE	0000000	EXTERNAL*	000472,	000767,	001015,	001057					
COL	0000005	PPU	000014,	000515							
CONVD	0000075	PROGRAM*	000047,	000051,	000054,	000056,	000060,	000063,	000065,	000067,	000072,
			000074								
CONVL	0001237	PROGRAM*	001241								
CRD	0000670	PROGRAM*	000307,	000421							
CRDT	0000677	PROGRAM*	000706,	000710,	000712						
CRD1	0000676	PROGRAM*	000422								
CRD2	0000705	PROGRAM*	000423								
CRD3	0000707	PROGRAM*	000424								
CRD4	0000711	PROGRAM*	000425								
CRD5	0000713	PROGRAM*	000426								
CRM	0000716	PROGRAM*	000431								
CRM6	0000720	PROGRAM*	000432								
CRMD	0000745	PROGRAM*	000743								
CRMT	0000726	PROGRAM*	000733,	000735,	000737						
CRM1	0000725	PROGRAM*	000433								
CRM2	0000732	PROGRAM*	000434								
CRM3	0000734	PROGRAM*	000435								
CRM4	0000736	PROGRAM*	000436								
CRM5	0000740	PROGRAM*	000437								
OUTOFF	0001105	PROGRAM*	001077								
CWDI	0000753	PROGRAM*	000760,	000762,	000764						
CWD1	0000747	PROGRAM*	000440								
CWD2	0000752	PROGRAM*	000441								
CWD3	0000757	PROGRAM*	000442								

CWD4	0000761	PROGRAM#	000443
CWD5	0000763	PROGRAM#	000444
CWD6	0000765	PROGRAM#	000445
CWMD	0001024	PROGRAM#	001021

SYMBOLIC REFERENCE TABLE

[illegible]

000745, 001022, 001024, 001066, 001105, 001142, 001145, 001151, 001153,
001167

K770	0000500	PROGRAM#	000326
LCN	0000625	PROGRAM#	000244
LCC	0000631	PROGRAM#	000335
LCN	0000624	PROGRAM#	000243

SYMBOLIC REFERENCE TABLE

LCP	0001067	PROGRAM*	000467,	000474								
LINE	0000000	EXTERNAL*	000037,	000075,	000517,	001161,	001201,	001225,	001226,	001226,	001236,	
			001240,	001256,	001263							
LINEP	0001350	PROGRAM*	000024,	000115,	000124,	000534						
LJM	0000563	PROGRAM*	000331									
LMC	0000637	PROGRAM*	000340									
LMN	0000620	PROGRAM*	000240									
LOAD	0000641	PROGRAM*	000341,	000352,	000373,	000624,	000626,	000632				
LOGNIF	0000651	PROGRAM*	000344,	000360,	000404,	000620,	000640					
LOGPROD	0000666	PROGRAM*	000621,	000623,	000636							
LOOPCH	0000030	PROGRAM*	000036,	000041								
LPC	0000635	PROGRAM*	000337									
LPN	0000621	PROGRAM*	000241									
MAXP	0001343	PROGRAM*	001174,	001221,	001222,	001230,	001247					
MINDEX	0001135	PROGRAM*	000372,	000375,	000400,	000403,	000406,	000411,	000414,	000417		
MJN	0000607	PROGRAM*	000236									
MCNITOR	0000000	EXTERNAL*	000552									
MSTORE	0000110	PROGRAM*	000704,	000744,	000746,	001063,	001066,	001103,	001143,	001154		
NEXTPP	0000112	PROGRAM*	000100,	000247,	000250,	000251,	000252,	000257,	000260,	000261,	000262,	
			000263,	000264,	000265,	000266,	000267,	000270,	000271,	000272,	000273,	
			000274,	000275,	000276,	000310,	000311,	000312,	000313,	000314,	000315,	
			000316,	000317,	000320,	000321,	000322,	000323,	000324,	000325,	000326,	
			000546,	000550,	000552,	000556,	000560,	000562,	000600,	000602,	000604,	
			000606,	000610,	000616,	000617,	000657,	000662,	000665,	000670,	000677,	
			000720,	000726,	000747,	000753,	000774,	001001,	001023,	001025,	001046,	
			001060,	001072,	001072,	001077,	001106,	001110,	001114,	001116,	001121,	
			001140,	001146,	001152							
NEXTPPT	0000123	PROGRAM*	000116									
NJN	0000603	PROGRAM*	000234									
NCTDUPL	0001234	PROGRAM*	001222									
NOTEQ	0001222	PROGRAM*	001217,	001247								
NREGS	0000010		000001,	000015,	000112,	000122,	001162,	001172,	001205,	001231,	001245,	
			001257,	000010,	000020,	000030,	000040,	000050,	000060,	000070,	000100,	
			000110									
OAM	0001076	PROGRAM*	000473									
OAN	0001071	PROGRAM*	000470									
OCTBCD	0001267	PROGRAM*	001223,	001235,	001237,	001261,	001274					
OL	0001305	PROGRAM*	001213									
OLDF	0001341	PROGRAM*	000506,	000575								
OPBCD	0000127	PROGRAM*	000503									
OPS	0000227	PROGRAM*	000502									
P	0000001	PPU	000005,	000327,	000331,	000333,	000335,	000336,	000337,	000340,	000372,	
			000375,	000400,	000403,	000406,	000411,	000414,	000417,	000421,	000431,	
			000432,	000433,	000434,	000435,	000436,	000437,	000445,	000450,	000451,	
			000452,	000453,	000454,	000455,	000456,	000457,	000460,	000461,	000462,	
			000463,	000465,	000466,	000470,	000472,	000473,	000475,	000476,	000477,	
			000500,	000505,	000564,	000571,	000573,	000577,	000715,	000717,	000772,	
			001042,	001067,	001147,	001163,	001165,	001217,	001234			
PCHARS	0000007	PPU	000516,	001164,	001260							
PJN	0000605	PROGRAM*	000235									
PJEM	0000120	PPU	000003,	000105								
PPARITH	0001131	PROGRAM*	000473,	000770,	001016,	001057						
PPCLOCK	0000000	EXTERNAL*	000042,	001051								

PFOL	0001163	PROGRAM*	001172						
PPDL2	0001177	PROGRAM*	001211,	001221,	001242,	001266			
PPDONE	0001244	PROGRAM*	001176,	001203,	001233				
PPNUM	0001342	PROGRAM*	001175,	001202,	001231,	001243,	001253,	001256	

SYMBOLIC REFERENCE TABLE

PPUDUMP	0001155	PROGRAM*	001255										
PPUINIT	0000000	PROGRAM*	000022										
PFUSIM	0000023	PROGRAM*	000124,	000126,	001175,	001177							
PFODMP	0001250	PROGRAM*	001244										
PR	0000000	EXTERNAL*	000547										
PRINTL	0000000	EXTERNAL*	000120,	000125,	000540,	001156,	001157,	001161,	001227,	001241,	001251,		
			001252,	001264,	001265								
Q	0000002	PPU	000006,	000330,	000332,	000334,	000341,	000342,	000343,	000344,	000345,		
			000346,	000347,	000350,	000351,	000352,	000353,	000354,	000355,	000356,		
			000357,	000360,	000361,	000362,	000363,	000364,	000365,	000366,	000367,		
			000370,	000371,	000373,	000374,	000376,	000377,	000401,	000402,	000404,		
			000405,	000407,	000410,	000412,	000413,	000415,	000416,	000420,	000422,		
			000423,	000424,	000425,	000426,	000427,	000440,	000441,	000442,	000443,		
			000444,	000446,	000501,	000551,	000563,	000566,	000572,	000575,	000611,		
			000620,	000621,	000622,	000624,	000625,	000627,	000630,	000631,	000633,		
			000635,	000637,	000702,	000741,	001020,	001026,	001031,	001034,	001037,		
			001044,	001055,	001071,	001076,	001107,	001113,	001115,	001120,	001134,		
			001135,	001140,	001144,	001171							
RADD	0000655	PROGRAM*	000346,	000364,	000412								
RADD1	0000660	PROGRAM*	000347,	000366,	000415								
READCLK	0001051	PROGRAM*	001045										
RJM1	0000566	PROGRAM*	000333										
RJM2	0000571	PROGRAM*	000334										
RFN	0000547	PROGRAM*	000256										
RSUB1	0000663	PROGRAM*	000350,	000370,	000420								
SEN	0000630	PROGRAM*	000246										
SCN	0000622	PROGRAM*	000242										
SETP	0000772	PROGRAM*	000450,	000465,	000472								
SETG	0001133	PROGRAM*	000330,	000332,	000351,	000353,	000355,	000357,	000361,	000363,	000365,		
			000367,	000371,	000374,	000377,	000402,	000405,	000410,	000413,	000416,		
			000427,	000446									
SETTRACE	0000557	PROGRAM*	000253										
SFN	0000611	PROGRAM*	000237										
SFN1	0000617	PROGRAM*	000613										
STOP	0000715	PROGRAM*	000430,	000447,	000464,	000471							
STOPPPU	0000545	PROGRAM*	000227										
STORE	0000653	PROGRAM*	000345,	000362,	000407								
SUB	0000646	PROGRAM*	000343,	000356,	000401,	000630							
TESTPP	0000077	PROGRAM*	000076,	000113,	000123								
TREND	0000000	EXTERNAL*	001132										
UJN	0000578	PROGRAM*	000232,	000601,	000603,	000605,	000607						
XCHJP	0000000	EXTERNAL*	000555										
XJ	0000554	PROGRAM*	000551										
Z	0000004	PPU	000430,	000447,	000464,	000467,	000471,	000474					
ZJN	0000601	PROGRAM*	000233										
ZRKST	0001151	PROGRAM*	000565,	000642,	000645,	000650,	000652,	000667,	000771,	001027,	001032,		
			001035,	001040,	001043,	001050,	001054,	001070,	001075,	001112,	001124,		
			001130										
ZRKST	0001153	PROGRAM*	000574,	000654,	000714								
ZRSTORE	0001065	PROGRAM*	001056										