

41CL Memory Reference

05/06/26

Page	Contents	ID	XROM	Description	YCRC value	Revision Date
0x000	NUT0-O	OS41	N/A	HP Operating System Rev O, pg 0	0x7BA02836	
0x001	NUT1-F			HP Operating System, Rev F, pg 1	0x8BF110D6	
0x002	NUT2-M			HP Operating System, Rev M, pg 2	0x0C2B5718	
0x003	XFNS3-3B	XFNS3	25	HP CX Extended Functions 3B, pg 3	0xA270BAF7	
0x004	SERVICE	HSRV	N/A	HP Service 2A	0xF023B96D	
0x005	XFNS5-2D	XFNS5	N/A	HP CX Extended Functions 2D, pg 5	0x447DF70E	
0x006	TIME-3B	TMOD	26	HP CX Time Functions 3B	0x661E8616	
0x007	YFNZ-4G	YFNZ	15	41CL Extra Functions -4G	0xACE0E4DE	
0x008	ADVL1-1B	41AD	22	HP-41 Advantage Pac 1B, pg 1	0xDD3065AC	
0x009	ADVL1-1B			HP-41 Advantage Pac 1B, pg 1	0xDD3065AC	
0x00A	YFNX-4C	YFNX	15	41CL Extreme Functions -4C	0x15C13E04	
0x00B	YLIB-5A	YLIB	N/A	41CL Library Functions -5A	0x5228D6F9	
0x00C	ADVU1-1B	41AD	24	HP-41 Advantage Pac 1B, pg 2, bnk 1	0xF7BCFBE7	
0x00D	ADVU2-1B			HP-41 Advantage Pac 1B, pg 2, bnk 2	0x2B2E2B57	
0x00E	MPL2V1F	MLTI	3	Multiprecision Library ROM	0xE3E8C1B1	
0x00F	YFNP-1F	YFNP	15	41CL Extra Functions Plus -1F	0x008496C7	
0x010	AECROML	AECR	18	AECROM, pg 1	0x34F1B188	
0x011	AECROMU			AECROM, pg 2	0x31DD795C	
0x012	AUTOFIN	AFIN	21	GMAC Autofinance	0x2666909C	
0x013	ASSEM3	ASMB	21	Assembler 3	0x1FD481E3	
0x014	AUTOSTRT	AUTO	10	HP Autostart	0x0BB24A6A	
0x015	AVIATION	AVIA	19	HP Aviation Pac 1A	0x1A7938E1	
0x016	HELPSYS1	HELP	10	Help System, bnk 1	0xA065911D	
0x017	HELPSYS2			Help System, bnk 2	0x334370B5	
0x018	CCDL-1B	CCDR	9	CCD Module 1B, pg 1	0xD9D7EB4D	
0x019	CCDU-2B		11	CCD Module 2B, pg 2	0x4216E34B	
0x01A	CHEMUSER	CHEM	20	Chemistry Solutions book	0x03DE24BE	
0x01B	CIRCUIT	CIRC	6	HP Circuit Analysis Pac 1A	0xE3A29B2B	
0x01C	CLINICAL	CLIN	19	HP Clinical Lab & Nuclear Medicine Pac 1A	0x721745CD	
0x01D	DATAACQL	DACQ	21	HP Data Acquisition 1B, pg 1	0x94933C29	
0x01E	DATAACQU		31	HP Data Acquisition 1B, pg 2	0xE813EC77	
0x01F	DAVID-2C	DAVA	2	David Assembler 2C	0x3166EFBA	
0x020	HPILDEVL	DEVI	22	HP HP-IL Development Pac 1B, pg 1	0x991A9E79	
0x021	HPILDEVU		24	HP HP-IL Development Pac 1A, pg 2	0x40A4E414	
0x022	HPILDIAG	DIIL	19	HP HP- IL Diagnostic	0xC8CBD00E	
0x023	DIAMOND	DMND	31	Diamond	0x2DC2A47F	
0x024	ES41L	E41S	4	ES41, pg 1	0x10ADCDF3	
0x025	ES41U		6	ES41, pg 2	0x4AABE9EE	
0x026	ESMLDL	ESML	10	ESMLDL 7B	0xFB2A334E	
0x027	EXTIO-1A	EXIO	23	HP Extended I/O 1A	0x504397A2	
0x028	FINANCE	FINA	4	HP Financial Decisions Pac 1D	0x5346BC6F	

0x029	GAMES-1A	GAME	10	HP Games Pac 1A	0xDA9B9799
0x02A	GMAC2	GMAS	31	GMAC 2	0x524B3D27
0x02B	GMAC3L	GMAT	21	GMAC 3, pg 1	0x7D266AF8
0x02C	GMAC3U		31	GMAC 3, pg 2	0x41A229ED
0x02D	HEPX1-1E	HEPX	7	HEPAX 1E, bnk 1	0x0659DE89
0x02E	HEPX2-1D			HEPAX 1D, bnk 2	0xE9ACACBA
0x02F	HEPX3-1D			HEPAX 1D, bnk 3	0x5C548CF8
0x030	HEPX4-1D			HEPAX 1D, bnk 4	0x88B25201
0x031	HOMEMGT	HOME	9	HP Home Management Pac 1A	0x5C02D8D7
0x032	LBLAPP4E	LBLS		LABELS for DASM4E	0x4A7F9616
0x033	LANDNAV	LAND	1	LANDNAV	0xA00C3699
0x034	MATH-1D	MATH	1	HP Math Pac 1D	0xCB6B3AB2
0x035	MACHINE	MCHN	12	HP Machine Design Pac 1A	0xAFB46CDA
0x036	MELBRNE	MELB	12	Melbourne	0x42B19762
0x037	MIL-ENGL	MILE	21	Military Engineering, pg 1	0x888318B4
0x038	MIL-ENGU		31	Military Engineering, pg 2	0x165D810F
0x039	MLROM	MLRM	21	MLROM	0x8C4C2123
0x03A	NAVL-1B	NAVI	14	HP Navigation Pac 1B, pg 1	0x80C504F2
0x03B	NAVU-1B		14	HP Navigation Pac 1B, pg 2	0xF2A12F3B
0x03C	NFCROM	NFCR	17	NFCROM 1B	0x93941C36
0x03D	NAVCOM2L	NVCM	14	NAVCOM 2, pg 0	0xA65D4319
0x03E	NAVCOM2U		15	NAVCOM 2, pg 1	0x4B36EC51
0x03F	PCODER	PCOD	16	ProtoCoder 1A	0xFD976C53
0x040	BOOST1	BSTZ	6	Boost, bnk 1	0xB508B75C
0x041	BOOST2			Boost, bnk 2	0x2E18E1AC
0x042	SW_DEVL	SWSW	6	Software Development German book	0x65E3C429
0x043	PRAXIS	VIEW	9	Programs from Vieweg book	0xC364469B
0x044	PETROLL	PETR	15	HP Petroleum Fluids Pac 1A, pg 1	0xC234E735
0x045	PETROLU		16	HP Petroleum Fluids Pac 2A, pg 2	0x2719C0EE
0x046	PLOTTERL	PLOT	17	HP Plotter Pac 1A, pg 1	0x7AF0E0E8
0x047	PLOTTERU		18	HP Plotter Pac 2A, pg 2	0x18BB9276
0x048	PPCL	PPCM	10	PPC ROM pg 1	0x011BEAFE
0x049	PPCU		20	PPC ROM, pg 2	0x14D6A2B3
0x04A	REALESTL	REAL	11	HP Real Estate Pac 1A, pg 1	0x3AA6E48D
0x04B	REALESTU			HP Real Estate Pac 1A, pg 2	0x87E282B9
0x04C	QUATERL	QUAT	15	Quaternion, pg 1	0x326D5668
0x04D	QUATERU		16	Quaternion, pg 2	0xAC788AB2
0x04E	SECURITY	SECY	19	HP Securities Pac 1A	0x82D5290E
0x04F	STANDARD	STAN	5	HP Standard Applications Pac 1C	0xC2173B4A
0x050	SGS-GAS	SGSG	21	SGS GAS	0xA78F8ADF
0x051	SIM12L	SIMM	4	Surveyor Inc. Module pg 1	0x0648D8D5
0x052	SIM12U		10	Surveyor Inc. Module, pg 2	0x5528FE19
0x053	SIM34L		31	Surveyor Inc. Module, pg 3	0xF183D28F
0x054	SIM34U		30	Surveyor Inc. Module, pg 4	0x31302A25
0x055	SKWIDBC	SKWD	8	SKWID	0xB1EBDE82
0x056	SIMPLEX	SMPL	16	Simplex	0xA6D345E5
0x057	STAT-1B	STAT	2	HP Statistics Pac 1B	0xA71163CA
0x058	STRESS	STRE	8	HP Stress Analysis Pac 1A	0x86A0AD50
0x059	STRUCTL	STRU	7	HP Structural Analysis Pac 1B, pg 1	0x10D00FE5
0x05A	STRUCTU		19	HP Structural Analysis Pac 1A, pg 2	0x0C707646
0x05B	SUPRROML	SUPR	21	SUP-R-ROM, pg 1	0x9F5748AE

0x05C	SUPROMU		31	SUP-R-ROM, pg 2	0x5F352490
0x05D	SURVEY	SURV	3	HP Survey Pac 1B	0x006F7876
0x05E	THERMAL	THER	13	HP Thermal & Transport Science Pac 1A	0x9D9C85F6
0x05F	DISASM4C	DA4C	15	DisAsm 4C	0x5944FC8E
0x060	PPCSTAT1	PPC9	9	PPC Statistics, pg 1	0xC01793C5
0x061	PPCSTAT2		13	PPC Statistics, pg 2	0xF356C82B
0x062	UPDAT-4D	YUPS	31	41CL Update Functions -4D	0xFC1040BF
0x063	UPHST-2A	YCLN	31	41CL Clone Functions -2A	0xA28BA41D
0x064	CLILUP	YUIL	14	41CL IL Update Functions	0xC4F52F75
0x065	YREGAPPS	YRGA	21	YREG Applications	0x995B38D1
0x066	HANDY	HNDY	31	Handy Compact	0x5C5FE236
0x067	ASTRO-1	ASTT	6	Astro-2010, pg 1	0x534B45A3
0x068	ASTRO-2			Astro-2010, pg 2	0xEB815A99
0x069	ASTRO-3			Astro-2010, pg 3	0x5D9DB525
0x06A	ASTROUI		8	Astro-2010 UI ROM	0x62510A17
0x06B	CHESS1	CHES	8	Chess, pg 1	0xD74926AB
0x06C	CHESS2			Chess, pg 2	0x4DF0DF09
0x06D	FUN1	FUNS	10	Funstuff, pg 1	0xADDE16CE
0x06E	FUN2			Funstuff, pg 2	0xB8B36961
0x06F	FUN3			Funstuff, pg 3	0x702C8E1C
0x070	FUN4			Funstuff, pg 4	0xB4F6F8D1
0x071	JMBMATHL	JMAT	5	JMB-Math, pg 1	0x3B320E23
0x072	JMBMATHU		6	JMB-Math, pg 2	0x89ABCB04
0x073	SLANTR	SR1B	11	SLANTR-SR1B	0x1CEEE2D7
0x074	QUEENS	QUEN	9	N-Queens	0x8FD86EED
0x075	KRAUSS1	KRSS	17	Krauss book, pg 1	0x5A1BD088
0x076	KRAUSS2			Krauss book, pg 2	0x0E21B262
0x077	TREKKIES	TREK	11	Trekkies	0x80DF47BF
0x078	UNITCONV	UNIT	10	UNITCONV	0xB9DE9AEB
0x079	BMF1	ADV1	12	Adventure, pg 1	0xE441BEE7
0x07A	BMF2			Adventure, pg 2	0xCBED8E13
0x07B	BMF3			Adventure, pg 3	0xED8C5C95
0x07C	BMF4			Adventure, pg 4	0x4D7257DF
0x07D	BMF5	ADV2	13	Adventure, pg 5	0x7C1B6D51
0x07E	BMF6			Adventure, pg 6	0x6EA0A209
0x07F	BMF7			Adventure, pg 7	0xC15E821D
0x080	BMF8			Adventure, pg 8	0xE458FDA4
0x081	CFIT1	CURV	4	CurveFit, pg 1	0x5E63839D
0x082	CFIT2		4	CurveFit, pg 2	0x7312D04A
0x083	MATRIX1	JMTX	8	JMB-Matrix, pg 1	0xADC5E87B
0x084	MATRIX2		8	JMB Matrix, pg 2	0x885C62C5
0x085	DISASM4E	DASM	15	DisAsm 4E	0xDA3840B9
0x086	EXT-IL	EXTI	27	SKWID EXT-IL	0xD2BDDA53
0x087	CCD-OSX	CCDX	5	CCD-OSX	0x189D74C4
0x088	SANDBOXL	SBOX	8	Sandbox, pg 1	0xAC8E208F
0x089	SANDBOXU		13	Sandbox, pg 2	0x50D13F58
0x08A	PANAMEL	PANA	5	Paname, pg 1	0x1835E11B
0x08B	PANAMEU		9	Paname, pg 2	0x94B6C549
0x08C	RANDOM	RNDZ	6	Random Numbers	0xA38D034E
0x08D	ADV-APP	AADV	19	Advantage Applications	0x4CD371AC
0x08E	OS4	4OS4	N/A	OS Page 4 Extension, bnk 1	0x5215CD4E

0x08F	OS4-2		N/A	OS Page 4 Extension, bnk 2	0X0769FE05
0x090	LADYBUG1	LADY	16	Ladybug, bnk 1	0x16042938
0x091	LADYBUG2			Ladybug, bnk 2	0x72495B15
0x092	GAMEZONE	ZONE	10	Game Zone	0xA2EC3FB3
0x093	ASSEMB4	ASM4	21	Assembler 4	0x7DD19E36
0x094	ASTROLOGY	ALGY	31	ASTRO-ROM	0xCA478918
0x095	CHAOS	TCHA	31	Chaos	0xC1F15814
0x096	BCMWS	BCMWS	8	BCMWS	0x5BDE4368
0x097	CVPAK1	CVPK	21	CVPAK, pg 1	0xE2B0EC58
0x098	CVPAK2		31	CVPAK, pg 2	0x6467CCA7
0x099	DYERKA	DYRK	31	Dyerka	0xE58D1EBC
0x09A	FORTH4	4FTH	N/A	page-4 HP-41 FORTH	0xB975DE3C
0x09B	FORTH5	FRTH	N/A	HP-41 FORTH	0xDB3E3E3E
0x09C	HYDRACMP	COMP	21	Hydracomp	0x3FF4FA5C
0x09D	ICODE	ICOD	19	Icode	0x2E9ECE57
0x09E	LAITRAM	LAIT	N/A	Laitram-XQ2	0x3DC83258
0x09F	CARDIO	CPMZ	31	Cardiac/Pulmonary Solutions book	0x941447D8
0x0A0	MDP1L	MDP1	15	MDP1, pg 1	0x8C813FE0
0x0A1	MDP1U		16	MDP1, pg 2	0x73C7B514
0x0A2	MDP2L	MDP2	17	MDP2, pg 1	0x64BBB478
0x0A3	MDP2U		18	MDP2, pg 2	0xEBABFF38
0x0A4	MUECKEL	MUEC	21	Muecke, pg 1	0xA9DC169B
0x0A5	MUECKEU		31	Muecke, pg 2	0x7B158017
0x0A6	NAVPAC2L	NPAC	14	Navpac, pg 1	0xEE05C28B
0x0A7	BW1A		15	Navpac, pg 2	0xFD2DFEA5
0x0A8	OILWELL	OILW	21	Oilwell, pg 1	0x8502C885
0x0A9	OILWELLU		31	Oilwell, pg 2	0x88D42414
0x0AA	PARIO	PARI	14	ProtoPario	0x3E2F63E6
0x0AB	PSOF	PSOF	16	ProfiSet -0F	0xF7E1D7B0
0x0AC	PPC-MELB	PMLB	12	PPC-Melbourne	0x8A7ECB80
0x0AD	PRIDE1	PRIQ	21	Pride, pg 1	0x45250A0E
0x0AE	PRIDE2		31	Pride, pg 2	0xD4942AED
0x0AF	ROAM-0A	ROAM	5	ROAM	0x04D3BC5B
0x0B0	ROMSV01	ROMS	9	Romsv01	0x95D8881F
0x0B1	PRISMFUN	FUNP	10	PRISMA Fun	0xA42EFF3A
0x0B2	SPEED2L	SMCH	21	Speed Machine II, pg 1	0xEBCA6C99
0x0B3	SPEED2U		31	Speed Machine II, pg 2	0x3DB3FFFF
0x0B4	TOMSROM	TOMS	6	Tomsrom	0xC894F0F9
0x0B5	ZENROM	ZENR	5	Zenrom	0x02FB484B
0x0B6	ZEPROM	ZEPM	9	Zeprom	0x79543B69
0x0B7	EVAL_VF	FRML	30	Formula Evaluation	0xB71D407E
0x0B8	EVAL_APP	FRMX	22	Formula Evaluation Applications	0x0D358409
0x0B9	HEPRAM	HEPR	N/A	HEPAX RAM Template	0x2273144F
0x0BA	NYCS1	NYSB	30	New York City Subway Map, pg 1	0xD943392C
0x0BB	NYCS2			New York City Subway Map, pg 2	0xDFA5547F
0x0BC	SPECTRAL	SPEC	8	Spectral Analysis	0x1DD2785C
0x0BD	KNIGHTTR	KNGT	31	JMB Knight's Tour	0x9B3FE97D
0x0BE	MARKS3A	DBUG	3	(RAM only) HP-41 MCODE Debugger	0x8C67EE11
0x0BF	MLABELS	MLBL	N/A	Mainframe Labels for DAVA	0x9E04665E
0x0C0	BESSEL1	BESL	2	Bessel Functions, pg 1	0x939B2BF8

0x0C1	BESSEL2		3	Bessel Functions, pg 2	0xF294ABEF	
0x0C2	POLYN1	POLY	6	Polynomial Functions, pg 1	0x9154C56E	
0x0C3	POLYN2		9	Polynomial Functions, pg 2	0xA8E8AFAA	
0x0C4	ILBUFFER	ILBF	22	IL Buffer	0xE7A8790F	
0x0C5	NOVCHAP	NCHP	31	NOV CHAP	0xDC06E071	
0x0C6	MPATHS	METX	30	Metro Search Engine	0x8A92FF29	
0x0C7	MMADRID	5MAD	N/A	Madrid, Spain Metro Map (for METX)	0x6B844ECB	
0x0C8	DIFFGEOM	GEOD	31	Differential Geometry	0xF1B9A63D	
0x0C9	ISENE	ISEN	17	ISENE	0x064C1258	
0x0CA	BSMS	BSMS	18	Bus. Sales/Marketing/Stats Solution Book	0xD07852CA	
0x0CB	CNTLSYS	CNTL	14	Control Systems Solution Book	0x219299E9	
0x0CC	ELECENG	EENG	15	Electrical Engineering Solution Book	0x8FD0F0A8	
0x0CD	LENDLS	LNDL	19	Lend/Lease Savings Solution Book	0x7A014988	
0x0CE	TESTSTAT	TEST	13	Test Statistics Solution Book	0xA82CB38F	
0x0CF	MECHENG	MENG	16	Mechanical Engineering Solution Book	0xDA5B87B3	
0x0D0	XROM	ROMX	31	XROM Utilities	0xDAAD35AD	
0x0D1	ANTENNAS	ANTS	16	Antennas Solution Book	0x60867B7C	
0x0D2	OPTOMTR	OPTO	16	Optometry Solution Book	0x7BB923E5	
0x0D3	PHYSICS	PHYH	15	Physics Solution Book	0x283DF261	
0x0D4	GEOMETRY	GEOM	14	Geometry Solution Book	0x2D53B753	
0x0D5	HL_MATH	HMAT	12	High-Level Math Solution Book	0xFBF8945B	
0x0D6	INTSOLN	ISOL	11	Interchangeable Solutions UPLE Program	0xBE1FDEAC	
0x0D7	TIMERSLN	TIME	6	Timer Solution Book	0x902B26A1	
0x0D8	GRAFIKS1	GRF1	9	Grafiks, pg 1	0x7D34373D	
0x0D9	GRAFIKS2			Grafiks, pg 2	0xEE12B8E5	
0x0DA	GRAFIKS3	GRF3	10	Grafiks, pg 3	0x45F45FF1	
0x0DB	GRAFIKS4			Grafiks, pg 4	0x3F515E7B	
0x0DC	CAB41L	CAB4	21	Schenk CAB 41, pg 1	0x1AF4A9EA	
0x0DD	CAB41U		31	Schenk CAB 41, pg 2	0x688AC431	
0x0DE	FLDB	FLDB	N/A	41CL Flash YCRC Database	0x05062026	05/06/26
0x0DF	IMDB	IMDB	N/A	41CL Image Database	0x5382D568	
0x0E0	GASPRP1	GASL	1	GASPROP, pg 1	0x0DA56A8A	
0x0E1	GASPRP2		2	GASPROP, pg 2	0x231A1D20	
0x0E2	GPROPP3		3	GASPROP, pg 3	0x6A32AD99	
0x0E3	GPROPP4		4	GASPROP, pg 4	0xBA1C1417	
0x0E4	GPROPP5	GASU	5	GASPROP, pg 5	0xA9BC8A12	
0x0E5	GASPRP6		6	GASPROP, pg 6	0xDB0B714F	
0x0E6	GPROPP7		8	GASPROP, pg 7	0x7DCF8B26	
0x0E7	GPSERVIC		7	GASPROP, pg 8	0x59960EE8	
0x0E8	AEC3L	AEC3	18	AECROM III pg 1	0x1B79FD88	
0x0E9	AEC3U		18	AECROM III, pg 2	0x5249CCAD	
0x0EA	BLDROM	BLDR	17	Build ROM	0xD7EAF53A	
0x0EB	UPLMTH1	UPLM	13	User's Program Library - Math, page 1	0x6764715F	
0x0EC	UPLMTH2			User's Program Library - Math, page 2	0x05F79BD3	
0x0ED	BGUG_IDC	IDC1	21	Blood Glucose UG	0xF0E36AD4	
0x0EE	ML-IDC_L	IDC2	21	ML-Insulin Dosage Computer, pg 1	0xACBEEA79	
0x0EF	ML-IDC_U		22	ML-Insulin Dosage Computer, pg 2	0x35F9AC9D	
0x0F0	REGULA1	REGU	9	Control Systems, pg 1	0x37791126	
0x0F1	REGULA2		10	Control Systems, pg 2	0x6078182A	
0x0F2	GEIR	ISEM	23	Geir	0x9F8ABDA3	
0x0F3	MLONDON	5LON	N/A	London, England Tube Map (for METX)	0x3F822FDA	

0x0F4	PROFIL	PRFS	27	Profiset, pg 1	0x0F3423F1
0x0F5	PROFIU		31	Profiset, pg 2	0x1D013B09
0x0F6	VIEIRA	LUIZ	17	Luiz Vieira's Collection	0x60A9770B
0x0F7	MAZES	MAZZ	16	Mazes and Puzzle Games	0x520AA566
0x0F8	MAHJONG1	MAHJ	10	Mahjong Score Keeping, pg 1	0xE176B636
0x0F9	MAHJONG2			Mahjong Score Keeping, pg 2	0x2C60830F
0x0FA	IERF1	IERR	1	IERF, pg 1	0xBF3EB02D
0x0FB	IERF2			IERF, pg 2	0x781F9DEB
0x0FC	ACTION1	AGAM	13	Action Games, pg 1	0x436ACA57
0x0FD	ACTION2			Action Games, pg 2	0x3EDC15A8
0x0FE	ADVPR1	ADVP	11	Advanced Printer, pg 1	0x7DB3C67E
0x0FF	ADVPR2		17	Advanced Printer, pg 2	0x45E6166D
0x100	SWAP21	2SWP	10	Misc routines from 412 Swap Disks, pg 1	0x05843F5B
0x101	SWAP22			Misc routines from 412 Swap Disks, pg 2	0xC35B0763
0x102	CCDADV	CCDA	10	CCD Advanced	0x706C0B22
0x103	GEOMETRY	GMTY	16	Geometry 11	0x1C7F4143
0x104	PASCAL41	APSC	20	PASCAL & Data Banks, pg 1	0xE9914BD5
0x105	PASCAL42			PASCAL & Data Banks, pg 2	0x7DD29058
0x106	NUMTHRY	NTHY	16	Number Theory	0x1A82B478
0x107	DIGITPAC	DIGT	24	DigitPAC	0xE8AD50A6
0x108	ILDEV2L	DEV2	22	IL Development II, pg 1	0x1F8D9268
0x109	ILDEV2U		24	IL Development II, pg 2	0x3A0ACD5E
0x10A	MONOPLY1	MONO	16	MONOPOLY, pg 1	0x5F4A9C7D
0x10B	MONOPLY2			MONOPOLY, pg 2	0xB3FBC23A
0x10C	RAMBOX32	RM32	31	RAMBox32	0xB87F92B8
0x10D	EPIDEMIC	EPIV	31	Epidemics	0x807E6615
0x10E	SUDOKU	SUD1	16	SUDOKU	0x2D95C87A
0x10F	VECTORS	VECT	14	Vector Analysis	0x92859384
0x110	HPX_PLUS	HEP3	6	HEPAX Plus	0x9EBF0A5A
0x111	YACHTL	YACH	21	Bobby Schenk's Yacht, pg 1	0x09C527D7
0x112	YACHTU		31	Bobby Schenk's Yacht, pg 2	0xF317427F
0x113	EXILPS	EILP	27	Extended IL Plus	0xC7458D56
0x114	CLUTLSB1	PWRL	12	Power-CL Utilities, bnk 1	0x4E9A827B
0x115	CLUTLSB2			Power-CL Utilities, bnk 2	0x74EB21F2
0x116	CLUTLSB3			Power-CL Utilities, bnk 3	0x0791F2E5
0x117	CLUTLSB4			Power-CL Utilities, bnk 4	0x61BC9BC5
0x118	DIFEQ1	DIFF	15	Differential Equations, pg 1	0xFA5F8A3C
0x119	DIFEQ2			Differential Equations, pg 2	0xA0E2C68B
0x11A	INTEG1	INTG	16	Integrator, pg 1	0x317B7E69
0x11B	INTEG2			Integrator, pg 2	0x53AEDC2E
0x11C	SIROM	SIHP	27	Solve & Integrate	0x14F0CD12
0x11D	PRTSRVC	PSRV	N/A	Printer Service	0x3C5DEAF9
0x11E	EVAL_EQN	SLVF	31	Formula Evaluation Equations	0x5F72541A
0x11F	GELNKGT	GLNG	16	Gelenkgetriebe Konstruktion	0xB3C430BB
0x120	LIBRARY4	4LIB	N/A	Library-4	0xE9450F80
0x121	RAMPGX4	4RAM	17	Library-4 RAMpage X	0x181C246E
0x122	TBOX4_L4	4TBX	13	Library-4 Toolbox	0x2397F742
0x123	ALPHA44	4ALP	6	Library-4 Alpha	0xA1D78886
0x124	HP67_FUN	H67G	23	HP-67 Games	0x830772EB
0x125	OUTERPLN	OPLN	21	Outer Planets	0xF5D8BB73
0x126	RAWGM1	RGME	18	RAW Games, pg 1	0x37C08DB5

0x127	RAWGM2			RAW Games, pg 2	0x312D0081
0x128	SYSDEMO1	DEMO	14	HP41 System Demo, pg 1	0xC2EFC4CA
0x129	SYSDEMO2			HP41 System Demo, pg 2	0xBF8D46D4
0x12A	SYSDEMO3			HP41 System Demo, pg 3	0x43ADC256
0x12B	SYSDEMO4			HP41 System Demo, pg 4	0xDDEF81D9
0x12C	XMASSTG	MASS	16	Extended Mass Storage	0x35C45268
0x12D	41ZDIAG	4DIG	8	Library-4 41Z Diagnostic	0x75620288
0x12E	N-BODY	NBOD	6	Gravitational N-Body Problems	0xCD086ECD
0x12F	CHEMENG	CENG	12	Chemical Engineering Solutions	0x215AC3F6
0x130	SNEAP1	NEA1	21	SNEAP, pg 1	0xBF50A7B3
0x131	SNEAP2		31	SNEAP, pg 2	0x34536449
0x132	SNEAP3	NEA3	11	SNEAP, pg 3	0xC66ADE2A
0x133	SNEAP4		10	SNEAP, pg 4	0x12D67EA5
0x134	SNEAP5	NEA5	13	SNEAP, pg 5	0x49C8C957
0x135	SNEAP6		14	SNEAP, pg 6	0x63C507B3
0x136	KERMI2K	KRMK	1	Kermit 2000	0xA6D201B6
0x137	FLUIDDYN	FDYN	17	Fluid Dynamics Solutions	0xC5A565D3
0x138	SWPGAME1	GSWP	9	Swap Games, pg 1	0x6C6161CB
0x139	SWPGAME2			Swap Games, pg 2	0xDAAF84D7
0x13A	HVAC	HVAC	16	HVAC Solutions	0xC911BCF8
0x13B	SOLARENG	LENG	14	Solar Engineering Solutions	0x49D1CCD1
0x13C	SAMLUNG1	GRMK	10	Games from Sammlung book, pg 1	0x9BB5E471
0x13D	SAMLUNG2			Games from Sammlung book, pg 2	0xF6807B5D
0x13E	FAIRFLDL	FAIR	21	Fairfield, pg 1	0xA76B6C13
0x13F	FAIRFLDU		31	Fairfield, pg 2	0xCE99C45D
0x140	LAPLACE1	LPLC	10	Laplace Transform, pg 1	0xE9CC4D9F
0x141	LAPLACE2			Laplace Transform, pg 2	0x503F3F6B
0x142	RSU_OSL	ROSV	4	RSU OS, pg 1	0xB0CD3BE2
0x143	RSU_OSU		6	RSU OS, pg 2	0x61899B2C
0x144	HEPX4H_1	HEP2	7	HEPAX 4H, bnk 1	0x098EFF9E
0x145	HEPX4H_2			HEPAX 4H, bnk 2	0x88C629B9
0x146	HEPX4H_3			HEPAX 4H, bnk 3	0x0330CD6E
0x147	HEPX4H_4			HEPAX 4H, bnk 4	0xDEA6DD4B
0x148	BASIC1	BASI	8	BASIC, pg 1	0x1E334957
0x149	BASIC2		11	BASIC, pg 2	0x0AC23EC4
0x14A	CMT-300L	CMT3	9	CMT-300 Multimeter, pg 1	0x62DCE73E
0x14B	CMT-300U			CMT-300 Multimeter, pg2	0x6205818C
0x14C	XPLORE1	GAMX	12	Explore Games, pg 1	0x32885C4C
0x14D	XPLORE2			Explore Games, pg 2	0x48F290CF
0x14E	CMT-200	CMT2	4	CMT-200 Data Acquisition	0xEC2C6C4F
0x14F	MLEPR_1H	EPRH	4	MLEPR -1H	0x22EB5C08
0x150	BUDER2L	BUD2	15	Buderus-2, pg 1	0x5F36C487
0x151	BUDER2U		16	Buderus-2 pg 2	0xD1579CAA
0x152	BUDER3	BUD3	9	Buderus-	0x884D590E
0x153	MWKLN3	MWK3	10	MWK-3	0x8BE45A73
0x154	MWKLN4L	MWK4	21	MWK-4, pg 1	0x8D2CDC5A
0x155	MWKLN4U		31	MWK-4, pg 2	0xF9D8CCE2
0x156	OVTROP2L	OTRP	5	Oventrop Ventil, pg 1	0x2FDA2E51
0x157	OVTROP2U		6	Oventrop Ventil, pg 2	0xA47B13E6
0x158	NEXT_2C	NEXT	6	NEXT	0x9787FBD4

0x159	MOUNT1C	MCMP	15	Mountain Computer 1C	0x8D1D4459
0x15A	YPRT1B	YPRT	29	41CL Serial Printer (bnk 1)	0x51443C73
0x15B	YPRT2B			41CL Serial Printer (bnk 2)	0xB8AB75AE
0x15C	CONTOUR	ZC2B	16	Contour	0x92164696
0x15D	TTLRKL	RCLT	20	Total Recall+ 2024	0x5A4D88F9
0x15E	ICEBOX1H	IBOX	4	ICEbox -1H	0x8A1BD27C
0x15F	MMEPROM	EPRM	16	MMEPROM	0xA9D63976
0x160	SRVC-1D	YSV1	N/A	41CL-specific HP Service (41C version)	0xC481E425
0x161	SRVC-2B	YSV2	N/A	41CL-specific HP Service (CV/CX version)	0x71B65F75
0x162	ADVTGMTH	ADVG	12	Advantage Math	0xFF010FCF
0x163	NONLINR	NONL	17	Non-linear Systems Module	0x934BB9A2
0x164	4WINS	4WIN	16	Connect Four Game	0x17CB9809
0x165	PSRVC-2C	YSV3	N/A	41CL-specific HP Printer Service	0x89C3268D
0x166	ELIPAPPS	ELIX	16	Orbital Mechanics	0xFA913ABE
0x167	YFNF-3B	YFNF	16	41CL Memory Functions -3B	0x9078BD90
0x168	OSXB1	OSX3	5	Lib-4 OS/X Bank-Switched, bnk 1	0x39E52CAF
0x169	OSXB2			Lib-4 OS/X Bank-Switched, bnk 2	0x97E14D7E
0x16A	OSXB3			Lib-4 OS/X Bank-Switched, bnk 3	0xBE678A83
0x16B	OSXB4			Lib-4 OS/X Bank-Switched, bnk 4	0x4A1700BA
0x16C	WWRAMBOX	WRAM	31	W&W Rambox64	0xDF80DEF1
0x16D	OBCSYS	OBCZ	31	OBCSYS	0x125CDF67
0x16E	AECPROG	PROG	18	Program Generator	0x1C33B87A
0x16F	AECSLVR	GSLV	18	Geometric Solver	0x8BDB0A81
0x170	PIE_ROM	EPIE	9	Dual Numbers and Double Stack	0xD0608A56
0x171	DBLDOWN	XSTK	1	Dual Numbers Applications	0xCA611F56
0x172	DUAL_APP	XDUL	4	Dual Stack Applications	0x2C1CC61B
0x173	XMTWIN	XMTW	20	X-mem TWIN	0xE39049EF
0x174	DST12_1L	DST1	8	CalTrans Survey, pg 1	0x2668BCF2
0x175	DST12_1U		9	CalTrans Survey, pg 2	0xFF209E30
0x176	DST12_2L		10	CalTrans Survey, pg 3	0xAA809FAD
0x177	U-BAHN	5UBH	N/A	Berlin, Germany U-Bahn Map (for METX)	0xD490695A
0x178	MATPOL11	4MTI	22	Lib-4 Matrix/Polynomial, pg 1, bnk 1	0xF74A7A4B
0x179	MATPOL12			Lib-4 Matrix/Polynomial, pg 1, bnk 2	0x523CE16D
0x17A	ETSII4A	ETS4	8	ETSII4A, pg 1	0x83C7C2B8
0x17B	ETSII4B		14	ETSII4B, pg 2	0x6829371E
0x17C	MATPOL21	4MTI	24	Lib-4 Matrix/Polynomial, pg 2, bnk 1	0xA4082E9F
0x17D	MATPOL22			Lib-4 Matrix/Polynomial, pg 2, bnk 2	0x4F2AAC6F
0x17E	ETSII5A	ETS5	11	ETSII5A, pg 1	0xF8F1599C
0x17F	ETSII5B		20	ETSII5B, pg2	0xD53DE05B
0x180	PWREXT1	PWRX	12	PowerCL Extreme, bnk 1	0xF7CDE56D
0x181	PWREXT2			PowerCL Extreme, bnk 2	0x4DFB4E0D
0x182	PWREXT3			PowerCL Extreme, bnk 3	0xCBBC38B9
0x183	PWREXT4			PowerCL Extreme, bnk 4	0x399B5175
0x184	VERMPACK	VERM	27	Verm-pack 1A	0x3986AA52
0x185	TVM_1G	TVMY	22	Time Value of Money 1G	0xF3DBC218
0x186	NUTIP-1A	ITCP	4	NutIP TCP/IP 1A	0x993752D4
0x187	SIMPLEX2	LPLX	8	Linear Programming	0xF13F7428
0x188	FORCAST1	FCST	10	Market Forecaster -1	0x8FCB260B
0x189	FORCAST2	FCS2	10	Market Forecaster -2	0xE359A8D9
0x18A	SUNSHT-1	COOQ	31	Sunshot, pg 1	0xDDEE4DF51
0x18B	SUNSHT-2		4	Sunshot, pg 2	0xE4799B52

0x18C	SSHEET	SHTZ	8	Spreadsheet	0x6AB97BF0
0x18D	INDOOR	INDO	10	Philips Indoor Lighting	0xA0C9FFBC
0x18E	ETSII3A	ETS3	13	ETSII3A, pg 1	0x25BE25B0
0x18F	ETSII3B			ETSII3B, pg 2	0xFCD85256
0x190	FCALAS1	FSSY	14	FOCAL Assmby/Disassembly, pg 1	0xF315D6A5
0x191	FCALAS2			FOCAL Assmby/Disassembly, pg 2	0xE52E0D4C
0x192	FOR_FEE	FFEE	14	For Fee	0x5068EACF
0x193	ETSII6A	ETS9	16	ETSII6A	0xFB2C3FED
0x194	CVLENG	CIVI	16	HP Civil Engineering Solutions	0xA1D22783
0x195	CIVU1	CIVU	20	Civil Engineering Special Collection, pg 1	0xD82A040B
0x196	CIVU2			Civil Engineering Special Collection, pg 2	0x75F238A0
0x197	CRTVONK	VONK	16	Math Programs Collection	0x088E0FBC
0x198	CLXPREGS	XPMM	20	CL Expanded Memory Functions	0xD302921C
0x199	CCDAPPS	UCCD	18	CCD Manual examples	0x28C2D578
0x19A	ANGEL-1	ANGZ	3	Angel ZEPROM, pg 1	0x0144EE52
0x19B	ANGEL-2		12	Angel ZEPROM, pg 2	0xB4685AC1
0x19C	TMAX3A	TMAX	6	Turbo-MAX 3A	0x2A476430
0x19D	BJ1B	BLJK	7	Blackjack -1B	0x98AB118B
0x19E	MAX2E	BJMX	6	Blackjack MAX -2E	0x8BB1375E
0x19F	VEGAS1C	VEGS	6	Vegas -1C	0x94DB7444
0x1A0	SMAT41	SM44	3	Lib-4 Sandmath 4x4, pg 1, bnk 1	0xAC511E16
0x1A1	SMAT42			Lib-4 Sandmath 4x4, pg 1, bnk 2	0x9A62AC6B
0x1A2	SMAT43			Lib-4 Sandmath 4x4, pg 1, bnk 3	0xC7FE7120
0x1A3	SMAT44			Lib-4 Sandmath 4x4, pg 1, bnk 4	0x7269939F
0x1A4	HLMAT41		2	Lib-4 Sandmath 4x4, pg 2, bnk 1	0x7BA1736B
0x1A5	HLMAT42			Lib-4 Sandmath 4x4, pg 2, bnk 2	0x96DF3F71
0x1A6	HLMAT43			Lib-4 Sandmath 4x4, pg 2, bnk 3	0xB214A08E
0x1A7	HLMAT44			Lib-4 Sandmath 4x4, pg 2, bnk 4	0x8F887CAF
0x1A8	PPCAPPS1	PPCU	17	PPC User Applications, pg 1	0x2CC66A39
0x1A9	PPCAPPS2		18	PPC User Applications, pg 2	0x772F977E
0x1AA	WWDAPPS	WWDB	17	Wickes, Wlodek, Dearing books	0xEB6A4C4F
0x1AB	JARRETXF	JARR	17	K. Jarrett XF book	0xDB96270E
0x1AC	JARRETSP		18	K. Jarrett SP book	0x5D2B141D
0x1AD	RAWFL_1	GRAW	18	Gene's RAW files, pg 1	0x75391A76
0x1AE	RAWFL_2			Gene's RAW files, pg 2	0xF1BF6CE8
0x1AF	MCCRNAK	MCKK	16	Alan McCornack book	0x5B47D616
0x1B0	GERMAN1	KRGM	17	Kruse/Gosmann books, pg 1	0x0A1DE4B8
0x1B1	GERMAN2		18	Kruse/ Gosmann books, pg 2	0xB6FD2E2C
0x1B2	PK_ALPH	PKP1	31	Poul Kaarup's Alpha and Pointers	0xFDE520DC
0x1B3	PK_MATH	PKP2	14	Poul Kaarup's Math and Physics, pg 1	0xC5A58BDE
0x1B4	PK_PHYS		15	Poul Kaarup's Math and Physics, pg 2	0x64F9C986
0x1B5	PK_FLAG	PKP3	3	Poul Kaarup's Flags and Stack	0x4E280C57
0x1B6	PK_PROG	PKP4	5	Poul Kaarup's Program Utilities	0x744ED659
0x1B7	PK_TIME	PKP5	18	Poul Kaarup's Timer and Utilities	0xB74C2C71
0x1B8	WARPB1	WARP	21	Warp-core+ K15, bnk 1	0x4D000DD7
0x1B9	WARPB2			Warp-core+ K15, bnk 2	0xD0EC069E
0x1BA	WARPB3			Warp-core+ K15, bnk 3	0x1A893185
0x1BB	TEXTED	EDTR	13	Text Editor	0x89437F38
0x1BC	HP-16C_1	16CS	16	HP-16C Emulator -1A, bnk 1	0xF4531CCB
0x1BD	HP-16C_2			HP-16C Emulator -1A, bnk 2	0xE0A28189
0x1BE	HP-16C_3			HP-16C Emulator -1A, bnk 3	0xE576C6D8

0x1BF	HP-16C_4			HP-16C Emulator -1A, bnk 4	0xAF315808
0x1C0	HC_1	HCPL	10	Hyper-Complex Math, pg 1	0xA849C145
0x1C1	HC_2		20	Hyper-Complex Math, pg 2	0xB4C25E1C
0x1C2	HC_3		21	Hyper-Complex Math, pg 3	0x0572EB82
0x1C3	MPARIS	5PAR	N/A	Paris, France Metro Map (for METX)	0x36F0A484
0x1C4	PSYCHRO	STEQ	12	Steam Properties	0x5C74CFF9
0x1C5	POKER	PPOK	10	Poker and Blackjack	0xE0A23C1B
0x1C6	GRAVTIM1	GRVI	16	Gravity & Time, pg 1	0x286F1976
0x1C7	GRAVTIM2			Gravity & Time, pg 2	0xAF5B06D2
0x1C8	NUT0-HT	HT41	N/A	H. Thorngren's modified OS, pg 0	0xAF6AD989
0x1C9	NUT1-HT			H. Thorngren's modified OS, pg 1	0x7C4D0C0C
0x1CA	NUT2-HT			H. Thorngren's modified OS, pg 2	0x62C46788
0x1CB	XFNS3-HT			H. Thorngren's modified OS, pg 3	0x07A3A082
0x1CC	TIME-HT	HTP5	26	H. Thorngren's modified OS, pg 5, bnk 1	0xDC5F9A0A
0x1CD	XFNS5-HT		N/A	H. Thorngren's modified OS, pg 5, bnk 2	0x1E72AADE
0x1CE	NASA	NASA	16	Flight and Aeronautics Papers	0x5A173C9E
0x1CF	HOROSCOPI	HORO	16	Horoscope	0xD6704434
0x1D0	TIDES	TIDW	10	Tides	0xB2C7D535
0x1D1	PORTSL	PRTW	11	US Ports, pg 1	0x737C5C10
0x1D2	PORTSU			US Ports, pg 2	0x26852531
0x1D3	HPCALEND	CLND	12	HP Calendar Solutions	0x933814CA
0x1D4	RUBIKS	RUBK	8	Rubik's Cube	0x264D420D
0x1D5	HEATEX	BBDY	16	Heat Exchange	0xFCAC9526
0x1D6	CPXMTRX	ZMAT	13	Complex Matrices	0x834AAEEE
0x1D7	JMB_CAL	JMBC	17	JMB Calendar	0x3B68614D
0x1D8	USERCAL	UCLN	18	User Calendar	0xE0DAB2CA
0x1D9	FILTERS1	EEFD	17	EE Filter Design, pg 1	0x1E8384EC
0x1DA	FILTERS2		18	EE Filter Design, pg 2	0x82539A98
0x1DB	CRYPTO41	CRTO	10	Cryptography	0xDD89955E
0x1DC	XFRAME	XBFR	30	Direct Stiffness Method, pg 1	0x02AE22A3
0x1DD	XBEAMS			Direct Stiffness Method, pg 2	0xF95A4251
0x1DE	TRUSS	XTRS	30	Direct Stiffness Method: Trusses, pg 1	0x88058D2D
0x1DF	XTRUSS			Direct Stiffness Method: Trusses, pg 2	0xFB3DAAD6
0x1E0	SWAPMTH	SWP3	12	Swapdisk Math, pg 1	0xF8896B0C
0x1E1	SWAPPOL		13	Swapdisk Math, pg 2	0xF3907193
0x1E2	XMSTAT	XTAT	6	Extended Statistics Module	0x315C68DD
0x1E3	TRANSNEP	EPTN	23	Trans-Neptunian Planets, 2016-2025	0xB79E2C7E
0x1E4	COUNTRY	CITY	30	Country/Capital	0x5DF3F873
0x1E5	SERIES	SERI	18	Sums & Series	0xE21BA157
0x1E6	PLANETS	PLAN	9	Planets	0x17FFE68E
0x1E7	PLUTOIDS	PLTO	10	Plutoids	0xBC96B6FA
0x1E8	SPANISH	WORD	31	English/Spanish Dictionary, pg 1	0x14567DB7
0x1E9	ENGLISH			English/Spanish Dictionary, pg 2	0xBBFC04E6
0x1EA	GJM_2E_1	GJMR	31	Greg J McClure's, pg 1	0x0BEB711F
0x1EB	GJM_2E_2			Greg J McClure's, pg 2	0x21AA517F
0x1EC	ELLIPTIC	EPTC	17	Elliptic Functions	0x7394911B
0x1ED	PERIOD1	HTAB	13	(HEPAX RAM only) Periodic Table, pg 1	0xCCA0B09D
0x1EE	PERIOD2		14	(HEPAX RAM only) Periodic Table, pg 2	0x23A57B1A
0x1EF	PERIOD3		16	(HEPAX RAM only) Periodic Table, pg 3	0x395E9D7C
0x1F0	4IZL1	Z4DL	1	4IZ Deluxe, pg 1, bnk 1	0x450E8CCC

0x1F1	41ZL2			41Z Deluxe, pg 1, bnk 2	0x4068FBF8
0x1F2	ITGDIFF	FRID	18	Fractional Integro-Differentiation	0x23F1B9F1
0x1F3	RECURSE	RCSN	9	Recursion and Modular Math	0x6DE1126B
0x1F4	41ZU1	Z4DL	4	41Z Deluxe, pg 2, bnk 1	0x9693CB4E
0x1F5	41ZU2			41Z Deluxe, pg 2, bnk 2	0xEB86BB88
0x1F6	GAMESB1	GSB2	16	HP-41 Games Solution Book 1/2, pg 1	0x843AD40C
0x1F7	GAMESB2			HP-41 Games Solution Book 1/2, pg 2	0x53A51C5C
0x1F8	ALL_FF	3MYA		Reserved for User (V3/V4)	0x53D36BD2
0x1F9	ALL_FF	3MYB			0x53D36BD2
0x1FA	ALL_FF	3MYC			0x53D36BD2
0x1FB	ALL_FF				0x53D36BD2
0x1FC	ALL_FF	3MYD			0x53D36BD2
0x1FD	ALL_FF				0x53D36BD2
0x1FE	ALL_FF				0x53D36BD2
0x1FF	ALL_FF				0x53D36BD2
0x200	ALL_FF				
0x201	HP41AOS	4AOS	12	HP-41 AOS	0x8B1AEA56
0x202	XMEMXF	XMXF	17	X-mem Extended Functions	0x407CDBAC
0x203	XMMTRX	XMMA	17	X-mem Matrix Applications	0x40F50C7D
0x204	XMPPC	XMPP	17	X-mem PPC Applications	0xD59FCBFE
0x205	PLAY1C	MPOW	16	Mark Power's Games	0XAD79CC6F
0x206	VA-BOARD	VBRD	10	Valentin Albillo's Board Games	0xE62EA910
0x207	VA-MATH	VMTH	8	Valentin Albillo's Math	0xB5EE5664
0x208	TS4031	TDSM	4	TDS Surveying, pg 1	0xBF22F456
0x209	TS4032		10	TDS Surveying, pg 2	0x9E8588CF
0x20A	TS4033		31	TDS Surveying, pg 3	0x6A1C50CF
0x20B	TS4034		30	TDS Surveying, pg 4	0x5F4775CF
0x20C	TI2023	TDSI	5	TDS Instrument, pg 1	0xBD37F6EA
0x20D	TI2024		12	TDS Instrument, pg 2	0x98D9A27A
0x20E	TP2243	TDSP	8	TDS Plotter, pg 1	0x9801DAC7
0x20F	TP2244		9	TDS Plotter, pg 2	0xF944C90F
0x210	ASTRO10A	1AST	23	Astro-10000, pg 1	0x2E48A231
0x211	ASTRO10B		24	Astro-10000, pg 2	0x730E6B4A
0x212	DERIVEZ1	ZDRV	21	Z-Derive, pg 1	0x4DCBD05A
0x213	DERIVEZ2		22	Z-Derive, pg 2	0x866E53AB
0x214	PARDIFEQ	BPDE	19	Partial Differential Equations	0xFE4B118D
0x215	ELLIPSOI	BELP	21	Ellipsoids	0xD86B4618
0x216	INTGDIF1	BIDQ	21	Integration/Differentiation, pg 1	0x49EE6656
0x217	INTGDIF2		22	Integration/Differentiation, pg 2	0xF4C37E75
0x218	DRVITG1	BDRV	31	Derivatives and Integrals, pg 1	0xAF6F90E4
0x219	DRVITG2			Derivatives and Integrals, pg 2	0xBA433F26
0x21A	PRECNUT	BPRN	9	Precession & Nutation	0x37DF4FB8
0x21B	ASTROREF	BREF	9	Astronomical Refraction	0x03468714
0x21C	EPH2018A	P18E	23	Planetary Ephemerides 2018, pg 1	0xAA054808
0x21D	EPH2018B		24	Planetary Ephemerides 2018, pg 2	0xAA4816ED
0x21E	DERIVE1	DRV4	31	DERIVE41, pg 1	0x82B3A55F
0x21F	DERIVE2			DERIVE41, pg 2	0x4D07F1E4
0x220	RHODESII	RDII	31	RhodeSystem II	0xA9C03C67
0x221	MORTAR	MRTR	31	MORTAR	0xCBFBFA57
0x222	RESERV_1	VOI1	9	Reservoir Engineering 1	0x28E6CA2F
0x223	RESERV_2			Reservoir Engineering 2	0x9F444F1B

0x224	RESERV_3	VOI3	10	Reservoir Engineering 3	0xD645BC8E
0x225	RESERV_4			Reservoir Engineering 4	0xFE783137
0x226	RESERV_5	VOI5	11	Reservoir Engineering 5	0x2DF9DBDC
0x227	RESERV_6			Reservoir Engineering 6	0x9F314E40
0x228	BVS-1	BVLU	3	Business Valuation	0x00CA7A88
0x229	CMA-1	CMGT	6	Capital Management	0xE0152D43
0x22A	FCAST1-1	FCS1	10	Forecaster-1	0x8FCB260B
0x22B	FCAST3-1	FCS3	10	Forecaster-3	0x0B200938
0x22C	HPP-1	HPPA	8	Hypothetical Probate Plus, pg 1	0x7A54301D
0x22D	HPP-2		12	Hypothetical Probate Plus, pg 2	0xD0F71013
0x22E	RACETR-1	RCTR	21	Racetrack	0x843AE9F7
0x22F	DSTAT	DSTY	10	Data & Statistics	0xA959E01D
0x230	MBK-EP-1	MBKF	3	MBK-EPROM, pg 1	0x4826340F
0x231	MBK-EP-2		13	MBK-EPROM, pg 2	0xA2D159B1
0x232	MBK-EP-3		14	MBK-EPROM, pg 3	0x9FA6E938
0x233	ALL_00		N/A	blank (loaded as MBK-EPROM, pg 4)	0xD666D0E4
0x234	LOUDSPKR	LDSP	10	Loudspeaker Design	0xBFB8FA07
0x235	TOULMATH	TTOU	12	Toulouse Math	0x75C2D553
0x236	MISC31	JMBA	31	Cocktail41, pg 1	0x62A78008
0x237	MISC32			Cocktail41, pg 2	0x7ACF9916
0x238	BUDER1-1	BUD1	10	Buderus 1, pg 1	0xA9FE9A7C
0x239	BUDER1-2		21	Buderus 1, pg 2	0x208F6360
0x23A	DRP16K-1	DRPS	31	Drilling Rig Platform, pg 1	0x6F499FA7
0x23B	DRP16K-2		31	Drilling Rig Platform, pg 2	0x07CB574F
0x23C	DRP16K-3		31	Drilling Rig Platform, pg 3	0x168F261A
0x23D	DRP16K-4		31	Drilling Rig Platform, pg 4	0xB8D836CD
0x23E	GE126A-1	GEDA	9	Geodata 126A, pg 1	0xE2041AAF
0x23F	GE126A-2		10	Geodata 126A, pg 2	0xC135517C
0x240	LOGANA-1	LOGA	21	LOGANA, pg 1	0x7922945A
0x241	LOGANA-2		31	LOGANA, pg 2	0x93FBB965
0x242	41ENS-1	ENS1	21	41 ENS, pg 1	0xD07FEABB
0x243	41ENS-2		31	41 ENS, pg 2	0x22B2FD27
0x244	ASTRO1	ASTU	31	Astro-1	0x3C4908FD
0x245	RADIAK-1	RADA	21	RADIAK	0x923A822D
0x246	AMASTRO	ASTI	24	Amateur Astronomy	0xD0FEE85B
0x247	SWORDS	IGSW	24	Gladiator Arena Game	0xB0EEDC5D
0x248	IRPR-1B	IPRT	29	HP Infrared Printer Module, bnk 1	0xE8D475FB
0x249	IRPR-3B			HP Infrared Printer Module, bnk 2	0x54FD2405
0x24A	PRINTER	WPRT	29	HP 82143A Printer	0x88E517ED
0x24B	ILMOD-1H	HILM	28	HP-IL Module	0xC646538A
0x24C	WAND-1F	HWND	27	HP Barcode Wand	0x30C16379
0x24D	ILPRT-2E	HILN	29	HP-IL Module Printer functions	0xC4FC4699
0x24E	CARDR-1G	RCRD	30	HP-41 Card Reader	0xC1604FD1
0x24F	INITRSU	IRSU	4	Eramco RSU Initialization	0x99674EFA
0x250	OS41-1	OSBK	16	programs from Ted Bowers' book, pg 1	0xC9803E77
0x251	OS41-2			programs from Ted Bowers' book, pg 2	0x55294914
0x252	GMAC1	GMAQ	31	GMAC 1	0x7D17D183
0x253	HDISASM	HDIS	9	HEPAX Disassembler	0x76DAFD70
0x254	SOLVIT	UTIL	16	SOLVIT and XM Utilities	0x84F17D17
0x255	DIVER	DIVE	16	Diving	0x2585F2AD
0x256	MCTEST	MTST	3	Mctest	0x19AF1854

0x257	83TRINH	TRIH	9	83trinh	0x0C499145	
0x258	BSH1	BSHM	21	Bausparkasse Swabisch Hall EPROM, pg 1	0x1DB37BF5	
0x259	BSH2		31	Bausparkasse Swabisch Hall EPROM, pg 2	0x884F4099	
0x25A	BSH3		15	Bausparkasse Swabisch Hall EPROM, pg 3	0xA12A0934	
0x25B	BSH4		16	Bausparkasse Swabisch Hall EPROM, pg 4	0x6C0743C9	
0x25C	DERIVE41	DRVP	21	DERIVE41	0xD10B4A6C	
0x25D	DIFFGEO5		31	DIFF GEOM	0xD37FC5E6	
0x25E	PRISMTH1	QMTH	13	Prisma Math	0x0B712962	
0x25F	PRISMTH2		13	Prisma Math	0x9F2DBA29	
0x260	ST_DMNGO	SDMO	31	Ste. Domingo	0xE5193871	
0x261	ELLIPREF	BEPT	10	Ellipsoidal Refraction	0x747BFB61	
0x262	-EQN_LIB	ELIB	11	Equation Library	0xE238C874	
0x263	FISHSTOK	FSTK	16	Fish Stock Calculations	0x3FF6E27C	
0x264	LATLON	LTLN	9	Geodetics	0x47F821AE	
0x265	RIPRAP	RRAP	13	RIPRAP Engineering	0x68C9CD7A	
0x266	PAPERS1	PAPZ	10	Logging & Agricultural Engineering, pg 1	0x642A4569	
0x267	PAPERS2		16	Logging & Agricultural Engineering, pg 2	0x21A7E82C	
0x268	E-6A_1	E-6A	21	E-6A Weight & Balance, pg 1	0x30B8DDA3	
0x269	E-6A_2		31	E-6A Weight & Balance, pg 2	0xCAEE69CA	
0x26A	E-6A_3		10	E-6A Weight & Balance, pg 3	0xD09ED147	
0x26B	E-6A_4		9	E-6A Weight & Balance, pg 4	0xB3066F07	
0x26C	AP550-3L	TGT3	21	AP550 A3 Targeting, pg 1	0x30BD2647	
0x26D	AP550-3U		31	AP550 A3 Targeting, pg 2	0x6079942F	
0x26E	E3AFMS-1	E3AF	21	E-3A Flight Management System, pg 1	0xD06E207D	
0x26F	E3AFMS-2		31	E-3A Flight Management System, pg 2	0xE43B37DC	
0x270	SESASOL1	SESA	16	Struct. Engineering Systems Analysis, pg 1	0x932FECB4	
0x271	SESASOL2			Struct. Engineering Systems Analysis, pg 2	0xD49C6111	
0x272	FRNCHADV	FADV	12	French Adventure	0x1FE4DCAA	
0x273	DIVINAT	DIVN	9	Divination	0x0C9A108A	
0x274	SWPENG1	SWP5	12	Swap Disk Engineering Programs, pg 1	0xDCBDA43C	
0x275	SWPENG2			Swap Disk Engineering Programs, pg 2	0x6B451837	
0x276	ABRAFRA1	ABRD	1	Abrasives Formulation, pg 1	0x7BBD79C2	
0x277	ABRAFRA2		2	Abrasives Formulation, pg 2	0xF482C450	
0x278	IPALL1	MINV	21	Merchantile Mutual Investment Pac, pg 1	0xE8E72558	
0x279	IPALL2		3	Merchantile Mutual Investment Pac, pg 2	0xC563718D	
0x27A	CALCS1	MLMU	31	Merchantile Mutual Live Mortgages, pg 1	0xAC98424D	
0x27B	CALCS2		6	Merchantile Mutual Live Mortgages, pg 2	0xEC260835	
0x27C	BBALL1	UPBB	9	User Library Programs - Baseball, pg 1	0x08DC3400	
0x27D	BBALL2			User Library Programs - Baseball, pg 2	0x593A02D7	
0x27E	IMSSYS4L	IMS4	31	IMS System-4, pg 1	0x6B2D0D27	
0x27F	IMSSYS4U		21	IMS System-4, pg 2	0x784349D2	
0x280	PAGE1	120M	31	120mm Mortar, pg 1, bnk 1	0x0DAC60D8	
0x281	PAGE12		31	120mm Mortar, pg 1, bnk 2	0x18CD73C2	
0x282	KACHELN1	MWK5	12	Buderus Kachelofen, pg 1	0x96A7F26B	
0x283	KACHELN2		13	Buderus Kachelofen, pg 2	0x393E05E0	
0x284	PAGE2	120M	21	120mm Mortar, pg 2, bnk 1	0xCCF0EDF6	
0x285	PAGE22		21	120mm Mortar, pg 2, bnk 2	0xA18AC786	
0x286	441ZL	441Z	1	Library-4 HP41Z, pg 1	0x8243464F	
0x287	441ZU		4	Library-4 HP41Z, pg 2	0x326EE777	
0x288	2026MAY	CEPH	24	Ephemerides 2026 May	0x61668FF9	05/06/26

0x289	2026APR	LEPH	24	Ephemerides 2026 April	0xA256C154	04/09/26
0x28A	ALL_FF			empty	0x53D36BD2	
0x28B	ALL_FF			empty	0x53D36BD2	
0x28C	ALL_FF			empty	0x53D36BD2	
0x28D	ALL_FF			empty	0x53D36BD2	
0x28E	ALL_FF			empty	0x53D36BD2	
0x28F	ALL_FF			empty	0x53D36BD2	
0x290	TOOLING	TOOL	21	Tooling Pac	0x7BA826C5	
0x291	AD_ASTR	ASTL	10	Ad Astra	0x900FEDA1	
0x292	ANCHORAG	WLAA	31	Anchorage, Alaska Water Level	0xB18750AB	
0x293	CHEMIST2	2CHM	14	Chemistry 3	0x01FA8184	
0x294	IOBOARD	KBIO	21	Klug Book I/O Board	0xCFA866C6	
0x295	ILRACK	KBIL	21	Klug Book IL Rack	0x7D541893	
0x296	AUDIO1	KBAU	20	Klug Book Audio, pg 1	0xE4E9462A	
0x297	AUDIO2		21	Klug Book Audio, pg 2	0xB1734C2D	
0x298	STRUCT1	DESB	16	HP-41 Structural Design Sol'n Book, Pg 1	0x3A83FC4B	
0x299	STRUCT2			HP-41 Structural Design Sol'n Book, pg 2	0xF842553D	
0x29A	DATALOD1	DESV	20	HP-41 Structural Design Sol'n Tables, pg 1	0xB8F73644	
0x29B	DATALOD2			HP-41 Structural Design Sol'n Tables, pg 2	0xB900470D	
0x29C	DATALOD3			HP-41 Structural Design Sol'n Tables, pg 3	0x3FF20EFA	
0x29D	DATALOD4			HP-41 Structural Design Sol'n Tables, pg 4	0x87A2097B	
0x29E	ASTROM2	2AST	31	ASTRO*ROM 2	0xCA478918	
0x29F	PEET	GAMF	9	PEET Games	0x0D52BF8E	
0x2A0	KHP4LIB	BIN4	N/A	HP-41 Binary Calculator library-4	0xF59EAD04	
0x2A1	KHPBIN	KBIN	16	HP-41 Binary Calculator	0x5933521B	
0x2A2	SEABAT1	BSEA	16	Sea Battles, pg 1	0xE9848193	
0x2A3	SEABAT2			Sea Battles, pg 2	0xCD8D752E	
0x2A4	SHOM1	WLP5	31	Water Level in 5 Ports, pg 1	0x14B7D9E7	
0x2A5	SHOM2		32	Water Level in 5 Ports, pg 2	0x9AC22F29	
0x2A6	PAPERS21	ENG2	16	Diverse Engineering Papers, pg 1	0x1A8FBEEC	
0x2A7	PAPERS22			Diverse Engineering Papers, pg 2	0x9B307318	
0x2A8	LOGPAC_1	LPAK	31	LOG PAC, pg 1	0xED1E2F3D	
0x2A9	LOGPAC_2		4	LOG PAC, pg 2	0x11BA614D	
0x2AA	LOGPAC_3		9	LOG PAC, pg 3	0xB946CBA4	
0x2AB	LOGPAC_4		10	LOG PAC, pg 4	0x8FB58460	
0x2AC	DIST7_1	DST5	1	District 7, pg 1	0xB6DE2868	
0x2AD	DIST7_2		2	District 7, pg 2	0x44DB710F	
0x2AE	DIST7_3		3	District 7, pg 3	0xC36A2563	
0x2AF	DIST7_4		7	District 7, pg 4	0x1B00A452	
0x2B0	COGO_PGC	SVY2	4	COGO Programs, pg 1	0x0648D8D5	
0x2B1	COGO_PGD		10	COGO Programs, pg 2	0x5528FE19	
0x2B2	COGO_PGE		31	COGO Programs, pg 3	0xF183D28F	
0x2B3	COGO_PGF		30	COGO Programs, pg 4	0x31302A25	
0x2B4	LANDERS	LNDR	16	Planet Lander Games	0x8DF1E9A2	
0x2B5	MMINDS	MIND	17	Master Minds Games	0xD2F69C86	
0x2B6	HANGMEN	GMAN	15	Hangman Games	0xC8D08081	
0x2B7	NBODY	BNBD	13	Gravitational N-body Problem	0x666BD4FB	
0x2B8	C141BL	141B	22	C141B FSC, pg 1	0xDE1B6C26	
0x2B9	C141BU		31	C141B FSC, pg 2	0xB2D15B96	
0x2BA	TINKER1	TAFB	21	Tinker AFB, pg 1	0xD06E207D	
0x2BB	TINKER2		31	Tinker AFB, pg 2	0xE43B37DC	

0x2BC	AP550-2	TGT2	10	AP550 A2 Targeting	0x28A0B775
0x2BD	ALL_FF			empty	0x53D36BD2
0x2BE	WPNEFF_L	WPNE	21	Weapon Effects, pg 1	0xE4C89BC9
0x2BF	WPNEFF_U		31	Weapon Effects, pg 2	0xAA5B6B68
0x2C0	DURPRG1	DURR	11	Accident Forensics Engineering, pg 1	0x8B79F34A
0x2C1	DURPRG2		12	Accident Forensics Engineering, pg 2	0xDEADC029
0x2C2	DURPRG3		13	Accident Forensics Engineering, pg 3	0x77B633AB
0x2C3	DURPRG4		14	Accident Forensics Engineering, pg 4	0xD490AD1A
0x2C4	DURPRG5	DURU	15	Accident Forensics Engineering, pg 5	0x1E10D12D
0x2C5	DURPRG6		16	Accident Forensics Engineering, pg 6	0x19D0167B
0x2C6	DURPRG7		17	Accident Forensics Engineering, pg 7	0xE0A78D24
0x2C7	ALL_00		N/A	blank (loaded as Acc. Forens. Eng, pg 8)	0xD666D0E4
0x2C8	HELICOP1	HEL1	10	Helicopters, pg 1	0x9A2BBE2A
0x2C9	HELICOP2		11	Helicopters, pg 2	0xDAE69350
0x2CA	HELICOP3		11	Helicopters, pg 3	0xFF880C05
0x2CB	ALL_00		N/A	blank (loaded as Helicopters, pg 4)	0xD666D0E4
0x2CC	RAMPAGE	RMPG	15	RAMpage	0x74520970
0x2CD	AMCOSX4	AOSX	5	LIBRARY-4 AMC-OSX	0xA8B65DDE
0x2CE	GONG1	GONH	10	GONG Report, pg 1	0xA0CE681B
0x2CF	GONG2		20	GONG Report, pg 2	0xC84E2EEC
0x2D0	AFDC1L	AFDE	16	AFDC1, pg 1	0xE8F9A42E
0x2D1	AFDC1U		17	AFDC1, pg 2	0x84C6B256
0x2D2	AFDC2L	AFDF	18	AFDC2, pg 1	0xD8530171
0x2D3	AFDC2U		19	AFDC2, pg 2	0x69A18873
0x2D4	B52DEX	B52B	21	Boeing B-52, pg 1	0xE78B04BD
0x2D5	B52DIO		31	Boeing B-52, pg 2	0xA014A069
0x2D6	FACCL	FACC	10	300889 FACC, pg 1	0xFBB19D07
0x2D7	FACCU		11	300889 FACC, pg 2	0x9B205EEC
0x2D8	L119L	L119	21	AFDC-L119, pg 1	0xE19AFE10
0x2D9	L119U		31	AFDC-L119, pg 2	0x7BD2A484
0x2DA	KC135_1L	K135	21	KC135 Weight & Balance, pg 1	0xC69D63BD
0x2DB	KC135_1U		31	KC135 Weight & Balance, pg 2	0xE6E1F56A
0x2DC	KC135_2		16	KC135 Weight & Balance, pg 3	0xC19C79A9
0x2DD	ALL_00		N/A	blank (loaded as KC135 W&B, pg 4)	0xD666D0E4
0x2DE	USPSL	USPS	21	DEL SERV 1, pg 1	0x5DAF1F6C
0x2DF	USPSU		31	DEV SERV 1, pg 2	0xA99532C3
0x2E0	APAC1	P3BC	9	Aviation Pac for P3B/C, pg 1	0xF1D2CC95
0x2E1	APAC2		31	Aviation Pac for P3B/C, pg 2	0x82DB2775
0x2E2	APAC3		21	Aviation Pac for P3B/C, pg 3	0x825B3038
0x2E3	APAC4		9	Aviation Pac for P3B/C, pg 4	0xF1D2CC95
0x2E4	SEAKING	SEAK	21	SeaKing	0x0F256BCD
0x2E5	ALL_FF			empty	0x53D36BD2
0x2E6	SOLARS1	SOLS	9	Solar System, pg 1	0x424CA059
0x2E7	SOLARS2		20	Solar System, pg 2	0xBC58FAAF
0x2E8	BBS1	BBSC	11	Bank Beratungs Software, pg 1	0x506EB229
0x2E9	BBS2		12	Bank Beratungs Software, pg 2	0xCB4ED3ED
0x2EA	BBS3		13	Bank Beratungs Software, pg 3	0x7D295934
0x2EB	BBS4		14	Bank Beratungs Software, pg 4	0xA441583F
0x2EC	CMT_1	CMT1	31	CMT-100 Eprom Test, pg 1	0x40C2CF42
0x2ED	CMT_2			CMT-100 Eprom Test, pg 2	0xA1C2F451
0x2EE	CMT_3			CMT-100 Eprom Test, pg 3	0x42B276C5

0x2EF	CMT_4			CMT-100 Eprom Test, pg 4	0x67C06D58
0x2F0	MDC_ROM1	IMDC	15	MDC ROM, pg 1	0xF57E7183
0x2F1	MDC_ROM2		16	MDC ROM, pg 2	0xE30D7C76
0x2F2	MDC_ROM3		17	MDC ROM, pg 3	0x9D7A9261
0x2F3	ALL_00		N/A	blank (loaded as MDC ROM, pg 4)	0xD666D0E4
0x2F4	AV1	AV1Q	31	AV1	0xC2AD790B
0x2F5	MW6KOELN	MWK9	1	MW6KOELN	0x8AD12636
0x2F6	IEC_287	IEC9	31	IEC 287	0x71CA9F94
0x2F7	ALL_FF			empty	0x53D36BD2
0x2F8	HEPX1-1F	HPXQ	7	experimental HEPAX 1F, bnk 1	0x5306B115
0x2F9	HEPX2-1D			HEPAX 1D, bnk 2	0xE9ACACBA
0x2FA	HEPX3-1D			HEPAX 1D, bnk 3	0x5C548CF8
0x2FB	HEPX4-1D			HEPAX 1D, bnk 4	0x88B25201
0x2FC	XLIB4_B1	X4LB	N/A	C/CV-compatible Library-4, bnk 1	0x9B994ED8
0x2FD	XLIB4_B2			C/CV-compatible Library-4, bnk 2	0xF5930A27
0x2FE	GJ9_2E_1	GJM9	19	Greg J McClure's, pg 1 (XROM 19)	0x0353B435
0x2FF	GJ9_2E_2			Greg J McClure's, pg 2 (XROM 19)	0x12B227D3
0x300	X16C_B1	X16C	16	HP-16C Emulator -1A, bnk 1 (XLIB4)	0xD9F272B6
0x301	X16C_B2			HP-16C Emulator -1A, bnk 2 (XLIB4)	0x92E694C4
0x302	HP-16C_3			HP-16C Emulator -1A, bnk 3	0xE576C6D8
0x303	X16C_B4			HP-16C Emulator -1A, bnk 4 (XLIB4)	0x8219EFF8
0x304	XOSX_B1	XOSX	5	OS/X Bank-Switched, bnk 1 (XLIB4)	0xD42A10C0
0x305	XOSX_B2			OS/X Bank-Switched, bnk 2 (XLIB4)	0x3A6DAB4C
0x306	XOSX_B3			OS/X Bank-Switched, bnk 3 (XLIB4)	0x13ED60F2
0x307	XOSX_B4			OS/X Bank-Switched, bnk 4 (XLIB4)	0xB95E3FE2
0x308	XSMAT_41	XSM4	3	Sandmath 4x4, pg 1, bnk 1 (XLIB4)	0xA6F7794B
0x309	XSMAT_42			Sandmath 4x4, pg 1, bnk 2 (XLIB4)	0x9A62AC6B
0x30A	XSMAT_43			Sandmath 4x4, pg 1, bnk 3 (XLIB4)	0xC9F4EA8D
0x30B	XSMAT_44			Sandmath 4x4, pg 1, bnk 4 (XLIB4)	0x4BA776AB
0x30C	XHLMT_41		2	Sandmath 4x4, pg 2, bnk 1 (XLIB4)	0x844E5CEA
0x30D	XHLMT_42			Sandmath 4x4, pg 2, bnk 2 (XLIB4)	0x67250149
0x30E	XHLMT_43			Sandmath 4x4, pg 2, bnk 3 (XLIB4)	0x57146507
0x30F	XHLMT_44			Sandmath 4x4, pg 2, bnk 4 (XLIB4)	0x3A850B3E
0x310	X41Z_L1	XZ41	1	41Z Deluxe, pg 1, bnk 1 (XLIB4)	0x4B314004
0x311	X41Z_L2			41Z Deluxe, pg 1, bnk 2 (XLIB4)	0x9BD16C0D
0x312	XMTPL_11	XMTI	22	Matrix/Polynomial, pg 1, bnk 1 (XLIB4)	0xB892AFC1
0x313	XMTPL_12			Matrix/Polynomial, pg 1, bnk 2 (XLIB4)	0x5438012D
0x314	X41Z_U1	XZ41	4	41Z Deluxe, pg 2, bnk 1 (XLIB4)	0x0B444381
0x315	X41Z_U2			41Z Deluxe, pg 2, bnk 2 (XLIB4)	0xD00E3208
0x316	XMTPL_21	XMTI	24	Matrix/Polynomial, pg 2, bnk 1 (XLIB4)	0x1E634DC5
0x317	XMTPL_22			Matrix/Polynomial, pg 2, bnk 2 (XLIB4)	0xE0765840
0x318	XWARP_B1	XCRE	21	Warp-core, bnk 1 (XLIB4)	0xADB85DBA
0x319	XWARP_B2			Warp-core, bnk 2 (XLIB4)	0x133E8E91
0x31A	XWARP_B3			Warp-core, bnk 3 (XLIB4)	0x23158D58
0x31B	XALPHA44	XAPH	6	Alpha (XLIB4)	0xB21590D4
0x31C	XEVAL_EQ	XSLV	31	Formula Evaluation Equations (XLIB4)	0xD8ADA569
0x31D	XEVAL_VF	XFVF	30	Formula Evaluation (XLIB4)	0x6FDA66D0
0x31E	XRAMPAGX	XRPG	17	RAMpage X (XLIB4)	0xF7851BDF
0x31F	XTBOX4L	XTOO	13	Toolbox (XLIB4)	0xF8B0EC46
0x320	XSIROM	WSIR	27	Solve & Integrate (XLIB4)	0x99B419FE

0x321	XRANDOM	WRAN	6	Random Numbers (XLIB4)	0x324F832A	
0x322	XCPXMTRX	WMTZ	13	Complex Matrices (XLIB4)	0xA6A2B607	
0x323	XADVMTH	WMTH	12	Advantage Math (XLIB4)	0x531347C2	
0x324	XDBLDOWN	XDBD	1	Dual Stack (XLIB4)	0xE4504FE1	
0x325	XXROM	WXRO	31	XROM (XLIB4)	0x34FA30C3	
0x326	XXMEMXF	WXMf	17	X-mem Extended Functions (XLIB4)	0x3E52275E	
0x327	XXMTWIN	WXTI	20	X-mem TWIN (XLIB4)	0x42BB9184	
0x328	HEPX4H_1	WHPX	7	HEPAX 4H, bnk 1	0x098EFF9E	
0x329	XHEPX_B2			HEPAX 4H, bnk 2 (XLIB4)	0x8475676B	
0x32A	HEPX4H_3			HEPAX 4H, bnk 3	0x0330CD6E	
0x32B	HEPX4H_4			HEPAX 4H, bnk 4	0xDEA6DD4B	
0x32C	XPIE	XPIY	9	Dual Numbers and Double Stack (XLIB4)	0x6F826247	
0x32D	XYRGAPPS	XRGQ	21	YREG Applications (XLIB4)	0xDC85A6AF	
0x32E	XTVM	XTVZ	22	Time Value of Money (XLIB4)	0xB287704F	
0x32F	XSERIES	XSEJ	18	Sums & Series (XLIB4)	0x59749DB1	
0x330	BALLIST	PROJ	10	Ballistic Programs	0xA9B7179F	
0x331	CIPW	CIPW	16	Cation Norm	0x22040A97	
0x332	HAMDIST	HAMZ	10	HAM Distances	0xC9220727	
0x333	ODES	ODES	10	ODE Papers	0x86D4022A	
0x334	BAFFLED	BFL5	20	Loudspeaker Design	0x54A2B71B	
0x335	VALPAC	VPAC	31	Valuations	0x90566649	
0x336	JCFUN1	JCF1	10	Mcode Reversi	0x273F64B6	
0x337	ALL_FF			empty	0x53D36BD2	
0x338	WF-1A	WFA1	5	WF-1A	0x1895D5BB	03/02/26
0x339	WF-2A	WFA2	15	WF-2A	0x535177F7	03/02/26
0x33A	ALL_FF			empty	0x53D36BD2	
0x33B	ALL_FF			empty	0x53D36BD2	
0x33C	ALL_FF			empty	0x53D36BD2	
0x33D	ALL_FF			empty	0x53D36BD2	
0x33E	ALL_FF			empty	0x53D36BD2	
0x33F	ALL_FF			empty	0x53D36BD2	
0x340	ALL_FF			empty	0x53D36BD2	
0x341	ALL_FF			empty	0x53D36BD2	
0x342	ALL_FF			empty	0x53D36BD2	
0x343	ALL_FF			empty	0x53D36BD2	
0x344	ALL_FF			empty	0x53D36BD2	
0x345	ALL_FF			empty	0x53D36BD2	
0x346	ALL_FF			empty	0x53D36BD2	
0x347	ALL_FF			empty	0x53D36BD2	
0x348	ALL_FF			empty	0x53D36BD2	
0x349	ALL_FF			empty	0x53D36BD2	
0x34A	ALL_FF			empty	0x53D36BD2	
0x34B	ALL_FF			empty	0x53D36BD2	
0x34C	ALL_FF			empty	0x53D36BD2	
0x34D	ALL_FF			empty	0x53D36BD2	
0x34E	ALL_FF			empty	0x53D36BD2	
0x34F	ALL_FF			empty	0x53D36BD2	
0x350	ALL_FF			empty	0x53D36BD2	
0x351	ALL_FF			empty	0x53D36BD2	
0x352	ALL_FF			empty	0x53D36BD2	
0x353	ALL_FF			empty	0x53D36BD2	

0x354	ALL_FF			empty	0x53D36BD2	
0x355	ALL_FF			empty	0x53D36BD2	
0x356	ALL_FF			empty	0x53D36BD2	
0x357	ALL_FF			empty	0x53D36BD2	
0x358	ALL_FF			empty	0x53D36BD2	
0x359	ALL_FF			empty	0x53D36BD2	
0x35A	ALL_FF			empty	0x53D36BD2	
0x35B	ALL_FF			empty	0x53D36BD2	
0x35C	ALL_FF			empty	0x53D36BD2	
0x35D	ALL_FF			empty	0x53D36BD2	
0x35E	ALL_FF			empty	0x53D36BD2	
0x35F	ALL_FF			empty	0x53D36BD2	
0x360	ALL_FF			empty	0x53D36BD2	
0x361	ALL_FF			empty	0x53D36BD2	
0x362	ALL_FF			empty	0x53D36BD2	
0x363	ALL_FF			empty	0x53D36BD2	
0x364	ALL_FF			empty	0x53D36BD2	
0x365	ALL_FF			empty	0x53D36BD2	
0x366	ALL_FF			empty	0x53D36BD2	
0x367	ALL_FF			empty	0x53D36BD2	
0x368	ALL_FF			empty	0x53D36BD2	
0x369	ALL_FF			empty	0x53D36BD2	
0x36A	ALL_FF			empty	0x53D36BD2	
0x36B	ALL_FF			empty	0x53D36BD2	
0x36C	ALL_FF			empty	0x53D36BD2	
0x36D	ALL_FF			empty	0x53D36BD2	
0x36E	ALL_FF			empty	0x53D36BD2	
0x36F	ALL_FF			empty	0x53D36BD2	
0x370	ALL_FF			empty	0x53D36BD2	
0x371	ALL_FF			empty	0x53D36BD2	
0x372	ALL_FF			empty	0x53D36BD2	
0x373	ALL_FF			empty	0x53D36BD2	
0x374	ALL_FF			empty	0x53D36BD2	
0x375	ALL_FF			empty	0x53D36BD2	
0x376	ALL_FF			empty	0x53D36BD2	
0x377	ALL_FF			empty	0x53D36BD2	
0x378	ALL_FF			empty	0x53D36BD2	
0x379	ALL_FF			empty	0x53D36BD2	
0x37A	ALL_FF			empty	0x53D36BD2	
0x37B	ALL_FF			empty	0x53D36BD2	
0x37C	ALL_FF			empty	0x53D36BD2	
0x37D	ALL_FF			empty	0x53D36BD2	
0x37E	ALL_FF			empty	0x53D36BD2	
0x37F	ALL_FF			empty	0x53D36BD2	
0x380	ALL_FF			empty	0x53D36BD2	
0x381	ALL_FF			empty	0x53D36BD2	
0x382	ALL_FF			empty	0x53D36BD2	
0x383	ALL_FF			empty	0x53D36BD2	
0x384	ALL_FF			empty	0x53D36BD2	
0x385	ALL_FF			empty	0x53D36BD2	
0x386	ALL_FF			empty	0x53D36BD2	

0x387	ALL_FF			empty	0x53D36BD2	
0x388	ALL_FF			empty	0x53D36BD2	
0x389	ALL_FF			empty	0x53D36BD2	
0x38A	ALL_FF			empty	0x53D36BD2	
0x38B	ALL_FF			empty	0x53D36BD2	
0x38C	ALL_FF			empty	0x53D36BD2	
0x38D	ALL_FF			empty	0x53D36BD2	
0x38E	ALL_FF			empty	0x53D36BD2	
0x38F	ALL_FF			empty	0x53D36BD2	
0x390	ALL_FF			empty	0x53D36BD2	
0x391	ALL_FF			empty	0x53D36BD2	
0x392	ALL_FF			empty	0x53D36BD2	
0x393	ALL_FF			empty	0x53D36BD2	
0x394	ALL_FF			empty	0x53D36BD2	
0x395	ALL_FF			empty	0x53D36BD2	
0x396	ALL_FF			empty	0x53D36BD2	
0x397	ALL_FF			empty	0x53D36BD2	
0x398	ALL_FF			empty	0x53D36BD2	
0x399	ALL_FF			empty	0x53D36BD2	
0x39A	ALL_FF			empty	0x53D36BD2	
0x39B	ALL_FF			empty	0x53D36BD2	
0x39C	ALL_FF			empty	0x53D36BD2	
0x39D	ALL_FF			empty	0x53D36BD2	
0x39E	ALL_FF			empty	0x53D36BD2	
0x39F	ALL_FF			empty	0x53D36BD2	
0x3A0	ALL_FF			empty	0x53D36BD2	
0x3A1	ALL_FF			empty	0x53D36BD2	
0x3A2	ALL_FF			empty	0x53D36BD2	
0x3A3	ALL_FF			empty	0x53D36BD2	
0x3A4	ALL_FF			empty	0x53D36BD2	
0x3A5	ALL_FF			empty	0x53D36BD2	
0x3A6	ALL_FF			empty	0x53D36BD2	
0x3A7	ALL_FF			empty	0x53D36BD2	
0x3A8	ALL_FF			empty	0x53D36BD2	
0x3A9	ALL_FF			empty	0x53D36BD2	
0x3AA	ALL_FF			empty	0x53D36BD2	
0x3AB	ALL_FF			empty	0x53D36BD2	
0x3AC	ALL_FF			empty	0x53D36BD2	
0x3AD	ALL_FF			empty	0x53D36BD2	
0x3AE	ALL_FF			empty	0x53D36BD2	
0x3AF	ALL_FF			empty	0x53D36BD2	
0x3B0	ALL_FF			empty	0x53D36BD2	
0x3B1	ALL_FF			empty	0x53D36BD2	
0x3B2	ALL_FF			empty	0x53D36BD2	
0x3B3	ALL_FF			empty	0x53D36BD2	
0x3B4	ALL_FF			empty	0x53D36BD2	
0x3B5	ALL_FF			empty	0x53D36BD2	
0x3B6	ALL_FF			empty	0x53D36BD2	
0x3B7	ALL_FF			empty	0x53D36BD2	
0x3B8	ALL_FF			empty	0x53D36BD2	

0x3B9	ALL_FF			empty	0x53D36BD2	
0x3BA	ALL_FF			empty	0x53D36BD2	
0x3BB	ALL_FF			empty	0x53D36BD2	
0x3BC	ALL_FF			empty	0x53D36BD2	
0x3BD	ALL_FF			empty	0x53D36BD2	
0x3BE	ALL_FF			empty	0x53D36BD2	
0x3BF	ALL_FF			empty	0x53D36BD2	
0x3C0	ALL_FF			empty	0x53D36BD2	
0x3C1	ALL_FF			empty	0x53D36BD2	
0x3C2	ALL_FF			empty	0x53D36BD2	
0x3C3	ALL_FF			empty	0x53D36BD2	
0x3C4	ALL_FF			empty	0x53D36BD2	
0x3C5	ALL_FF			empty	0x53D36BD2	
0x3C6	ALL_FF			empty	0x53D36BD2	
0x3C7	ALL_FF			empty	0x53D36BD2	
0x3C8	ALL_FF			empty	0x53D36BD2	
0x3C9	ALL_FF			empty	0x53D36BD2	
0x3CA	ALL_FF			empty	0x53D36BD2	
0x3CB	ALL_FF			empty	0x53D36BD2	
0x3CC	ALL_FF			empty	0x53D36BD2	
0x3CD	ALL_FF			empty	0x53D36BD2	
0x3CE	ALL_FF			empty	0x53D36BD2	
0x3CF	ALL_FF			empty	0x53D36BD2	
0x3D0	ALL_FF			empty	0x53D36BD2	
0x3D1	ALL_FF			empty	0x53D36BD2	
0x3D2	ALL_FF			empty	0x53D36BD2	
0x3D3	ALL_FF			empty	0x53D36BD2	
0x3D4	ALL_FF			empty	0x53D36BD2	
0x3D5	ALL_FF			empty	0x53D36BD2	
0x3D6	ALL_FF			empty	0x53D36BD2	
0x3D7	ALL_FF			empty	0x53D36BD2	
0x3D8	ALL_FF			empty	0x53D36BD2	
0x3D9	ALL_FF			empty	0x53D36BD2	
0x3DA	ALL_FF			empty	0x53D36BD2	
0x3DB	ALL_FF			empty	0x53D36BD2	
0x3DC	ALL_FF			empty	0x53D36BD2	
0x3DD	ALL_FF			empty	0x53D36BD2	
0x3DE	ALL_FF			empty	0x53D36BD2	
0x3DF	ALL_FF			empty	0x53D36BD2	
0x3E0	ALL_FF	3MYE		Reserved for User	0x53D36BD2	
0x3E1	ALL_FF	3MYF			0x53D36BD2	
0x3E2	ALL_FF	3MYG			0x53D36BD2	
0x3E3	ALL_FF				0x53D36BD2	
0x3E4	ALL_FF	3MYH			0x53D36BD2	
0x3E5	ALL_FF				0x53D36BD2	
0x3E6	ALL_FF				0x53D36BD2	
0x3E7	ALL_FF				0x53D36BD2	
0x3E8	ALL_FF	3MYI		Reserved for User	0x53D36BD2	
0x3E9	ALL_FF	3MYJ			0x53D36BD2	
0x3EA	ALL_FF	3MYK			0x53D36BD2	
0x3EB	ALL_FF				0x53D36BD2	

0x3EC	ALL_FF	3MYL			0x53D36BD2	
0x3ED	ALL_FF				0x53D36BD2	
0x3EE	ALL_FF				0x53D36BD2	
0x3EF	ALL_FF				0x53D36BD2	
0x3F0	ALL_FF	3MYM	Reserved for User		0x53D36BD2	
0x3F1	ALL_FF	3MYN			0x53D36BD2	
0x3F2	ALL_FF	3MYO			0x53D36BD2	
0x3F3	ALL_FF				0x53D36BD2	
0x3F4	ALL_FF	3MYP			0x53D36BD2	
0x3F5	ALL_FF				0x53D36BD2	
0x3F6	ALL_FF				0x53D36BD2	
0x3F7	ALL_FF				0x53D36BD2	
0x3F8	ALL_FF	3MYQ	Reserved for User		0x53D36BD2	
0x3F9	ALL_FF	3MYR			0x53D36BD2	
0x3FA	ALL_FF	3MYS			0x53D36BD2	
0x3FB	ALL_FF				0x53D36BD2	
0x3FC	ALL_FF	3MYT			0x53D36BD2	
0x3FD	ALL_FF				0x53D36BD2	
0x3FE	ALL_FF				0x53D36BD2	
0x3FF	ALL_FF				0x53D36BD2	
0x800			41C Registers 0-3FF			
0x801			Registers 400-FFF (not utilized by the OS) also known as Expanded Memory			
0x802						
0x803						
0x804			41CL MMU registers			
0x805		YBFR	41CL Memory Buffer			
0x806		CFDB	Memory Buffer or CFLDB location			
0x807						
0x808						
0x809						
0x80A						
0x80B						
0x80C		YFNC	Reserved for custom YFNZ or YFNX			
0x80D						
0x80E						
0x80F						
0x810			Page 0 of Sector Buffer			
0x811			Page 1 of Sector Buffer			
0x812			Page 2 of Sector Buffer			
0x813			Page 3 of Sector Buffer			
0x814			Page 4 of Sector Buffer			
0x815			Page 5 of Sector Buffer			
0x816			Page 6 of Sector Buffer			
0x817			Page 7 of Sector Buffer			
0x818		3MYU				
0x819		3MYV				
0x81A		3MYW				
0x81B						
0x81C		3MYX				
0x81D						
0x81E						

0x81F					
0x820					
0x821					
0x822					
0x823					
0x824					
0x825					
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0x828					
0x829					
0x82A					
0x82B					
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0x82E					
0x82F					
0x830					
0x831					
0x832					
0x833					
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0x835					
0x836					
0x837					
0x838					
0x839					
0x83A					
0x83B					
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0x83D					
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0x840					
0x841					
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0x87E						
0x87F						

NOTES:

1. Flash memory starts at page 0x000, and RAM memory starts at page 0x800.
2. This memory map (for Flash memory only) does not apply to V2 41CL boards. Although much of the mapping is identical, there is a separate Memory Reference for V2 41CL boards.
3. **V3 and V4 41CL boards contain Flash memory with addresses 0x000000 through 0x1FFFFFF. Only V5 41CL boards contain Flash memory with addresses 0x200000 through 0x3FFFFFF.**
4. A blank page in Flash memory is different from an empty page in Flash memory. A blank page contains 0x0000 in every location, and can be safely plugged into a Port. An empty (erased or unprogrammed) page contains 0xFFFF in every location, which will lock up the 41CL when plugged into a Port. A blank page has a YCRC value of 0xD666D0E4, while an empty page has a YCRC value of 0x53D36BD2.
5. Flash memory is always erased by sectors. Normally a sector consists of eight pages, and sector boundaries are highlighted in the table. Either the the top sector or the bottom sector is unique, and is erased by subsector. Refer to the *41CL Update Functions* documentation for the details.

RAM Memory Details

Physical Address	Contents	Used for	
0x800000 - 0x800003	Register 000	T register	
0x800004 - 0x800007	Register 001	Z register	
0x800008 - 0x80000B	Register 002	Y register	
0x80000C - 0x80000F	Register 003	X register	
0x800010 - 0x800013	Register 004	L register	
0x800014 - 0x800017	Register 005	ALPHA register 1-7	
0x800018 - 0x80001B	Register 006	ALPHA register 8-14	
0x80001C - 0x80001F	Register 007	ALPHA register 15-21	
0x800020 - 0x800023	Register 008	ALPHA register 22-28	
0x800024 - 0x800027	Register 009	temp ALPHA scratch	
0x800028 - 0x80002B	Register 00A	OS functions	
0x80002C - 0x80002F	Register 00B		
0x800030 - 0x800033	Register 00C		
0x800034 - 0x800037	Register 00D		
0x800038 - 0x80003B	Register 00E		
0x80003C - 0x80003F	Register 00F	OS functions	
0x800040 - 0x8000FF	Registers 10 - 3F	not visible to OS	
0x800100 - 0x800103	Register 040	X-Memory	
0x800104 - 0x800107	Register 041		
.	.		
.	.		
0x8002F8 - 0x8002FB	Register 0BE		
0x8002FC - 0x8002FF	Register 0BF		
0x800300 - 0x800303	Register 0C0		Key Assign Buffer, Alarm Buffer, I/O Buffers, Program memory Data
0x800304 - 0x800307	Register 0C1		
.	.		
.	.		
0x8007F8 - 0x8007FB	Register 1FE		
0x8007FC - 0x8007FF	Register 1FF		
0x800800 - 0x800803	Register 200		
		not visible to OS	

0x800804 - 0x800807	Register 201	X-Memory	
0x800808 - 0x80080B	Register 202		
.	.		
.	.		
0x800BB8 - 0x800BBB	Register 2EE	X-Memory	
0x800BBC - 0x800BBF	Register 2EF		
0x800BC0 - 0x800C03	Registers 2F0 - 300		
0x800C04 - 0x800C07	Register 301		
0x800C08 - 0x800C0B	Register 302	not visible to OS	
.	.		
.	.		
.	.		
0x800FB8 - 0x800FBB	Register 3EE	not visible to OS	
0x800FBC - 0x800FBF	Register 3EF		
0x800FC0 - 0x800FFF	Registers 3F0 - 3FF		
0x801000 - 0x801FFF	Registers 400 - 7FF		
0x802000 - 0x802FFF	Registers 800 - BFF	Expanded Memory 1	
0x803000 - 0x803FFF	Registers C00 - FFF	Expanded Memory 2	
0x804000	41C Register Address	Expanded Memory 3	
0x804001 - 0x80400B	reserved	REGADD	
0x80400C	Page 0 MMU registers (only one bank)	set 0	Page 0 MMU data
0x80400D		set 1	
0x80400E		set 2	
0x80400F		set 3	
0x804010 - 0x804017	41CL Extra/Extreme functions internal use		
0x804018	Turbo Mode storage location	Light Sleep	
0x804019	41CL Extra/Extreme functions internal use		
0x80401A	CPU ST[14:8] storage location	Light Sleep	
0x80401B	reserved		
0x80401C	Page 1 MMU registers (only one bank)	set 0	Page 1 MMU data
0x80401D		set 1	
0x80401E		set 2	
0x80401F		set 3	
0x804020 - 0x80402B	41CL Memory Functions internal use		
0x80402C	Page 2 MMU registers (only one bank)	set 0	Page 2 MMU data
0x80402D		set 1	
0x80402E		set 2	
0x80402F		set 3	
0x804030	Page 4 MMU register dynamic storage		
0x804031 - 0x80403B	41CL Update Functions internal use		
0x80403C	Page 3 MMU registers (only one bank)	set 0	Page 3 MMU data
0x80403D		set 1	
0x80403E		set 2	
0x80403F		set 3	

0x804040	Page 4, Bank 1 MMU registers	set 0	Page 4 MMU data
0x804041		set 1	
0x804042		set 2	
0x804043		set 3	
0x804044	Page 4, Bank 3 MMU registers	set 0	
0x804045		set 1	
0x804046		set 2	
0x804047		set 3	
0x804048	Page 4, Bank 2 MMU registers	set 0	
0x804049		set 1	
0x80404A		set 2	
0x80404B		set 3	
0x80404C	Page 4, Bank 4 MMU registers	set 0	
0x80404D		set 1	
0x80404E		set 2	
0x80404F		set 3	
0x804050 - 0x804053	Page 5, Bank 1 MMU registers	sets 0-3	Page 5 MMU data
0x804054 - 0x804057	Page 5, Bank 3 MMU registers	sets 0-3	
0x804058 - 0x80405B	Page 5, Bank 2 MMU registers	sets 0-3	
0x80405C - 0x80405F	Page 5, Bank 4 MMU registers	sets 0-3	
0x804060 - 0x804063	Page 6, Bank 1 MMU registers	sets 0-3	Page 6 MMU data
0x804064 - 0x804067	Page 6, Bank 3 MMU registers	sets 0-3	
0x804068 - 0x80406B	Page 6, Bank 2 MMU registers	sets 0-3	
0x80406C - 0x80406F	Page 6, Bank 4 MMU registers	sets 0-3	
.	.	.	.
0x8040E0 - 0x8040E3	Page E, Bank 1 MMU registers	sets 0-3	Page E MMU data
0x8040E4 - 0x8040E7	Page E, Bank 3 MMU registers	sets 0-3	
0x8040E8 - 0x8040EB	Page E, Bank 2 MMU registers	sets 0-3	
0x8040EC - 0x8040EF	Page E, Bank 4 MMU registers	sets 0-3	
0x8040F0 - 0x8040F3	Page F, Bank 1 MMU registers	sets 0-3	Page F MMU data
0x8040F4 - 0x8040F7	Page F, Bank 3 MMU registers	sets 0-3	
0x8040F8 - 0x8040FB	Page F, Bank 2 MMU registers	sets 0-3	
0x8040FC - 0x8040FF	Page F, Bank 4 MMU registers	sets 0-3	
0x804100 - 0x8041FF	MMU registers, sets 4-7		MMU data
0x804200 - 0x8042FF	MMU registers, sets 8-B		MMU data
0x804300 - 0x8043FF	MMU registers, sets C-F		MMU data
0x804400 - 0x804FFF	41CL functions internal use		
0x805000 - 0x805FFF	Memory Buffer (1 4Kx16 page)		
0x806000 - 0x806FFF	CFLDB location		
0x807000 - 0x80FFFF	User RAM (9 4Kx16 pages)		
0x810000 - 0x817FFF	Sector Buffer (8 4Kx16 pages)		
0x818000 - 0x87FFFF	User RAM (104 4Kx16 pages)		

NOTES:

1. Each seven-byte 41C register is stored in four successive memory locations:

bit:	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
addr lsb																
00	Byte 1								Byte 0							
01	Byte 3								Byte 2							
10	Byte 5								Byte 4							
11	unused								Byte 6							

2. Each MMU entry is stored in a single memory location:

bit:	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	EN	LCK	MULTI	Z23	A22	A21	A20	A19	A18	A17	A16	A15	A14	A13	A12	

Bit 15 is the Enable (EN) bit. If this bit is zero, the MMU entry is ignored and the corresponding page and bank will be fetched from a Port.

Bit 14 is the Lock (LCK) bit, used only with the *41CL Extreme Functions*. If this bit is set to one the entry cannot be changed, except with either the **UNLOCK** function or the **MMUCLR** function.

Bits 13 and 12 are the Multi-page Image (MULTI) bits, used only with the *41CL Extreme Functions*. These bits are managed automatically by the **PLUG** and **PPLUG** functions, with the following meanings:

13	12	MULTI meaning
0	0	Not part of a multi-page image
0	1	First page of a multi-page image
1	1	Middle page of a multi-page image
1	0	Last page of a multi-page image

Bits 11-0 hold the twelve address bits to be substituted for the Page address (bits 15-12) portion of the logical address, to create the physical address.

3. MMU register sets 1-F are used only by the *41CL Extreme Functions*. The arrangement of MMU register sets 4-7, 8-B and C-F is identical to the arrangement for sets 0-3 as shown in the RAM Memory Details.