

LAC
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LL          AA      AA      AA      AA      AA      DD      DD      MM      MM      CC      00      00      DD      DD      EE
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0000 1 .TITLE LAADMCODE - LPA-11 DED. A/D MICROCODE
0000 2 .IDENT 'V04-000'
0000 3
0000 4 :*****
0000 5 :*
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0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :
0000 28 :++
0000 29 : FACILITY: LPA-11 UTILITY ROUTINES
0000 30 :
0000 31 : ABSTRACT:
0000 32 : THIS MODULE CONTAINS THE LPA-11 DEDICATED A/D MODE MICROCODE.
0000 33 :
0000 34 : ENVIRONMENT: USER MODE (LINKED WITH LPA-11 LOADER PROCESS)
0000 35 :
0000 36 : AUTHOR: CHUCK SAMUELSON. CREATION DATE: NOVEMBER, 1977
0000 37 : MODIFIED BY:
0000 38 :
0000 39 : AARON BOXER, JULY - OCTOBER, 1978
0000 40 : STEVE BECKHARDT, OCTOBER, 1978
0000 41 : ADDED MODULE PREFACE AND MICROCODE TYPE TO LAST WORD
0000 42 : OF MICROCODE
0000 43 :
0000 44 : V02-001 AARON BOXER AND DOUG BELLI MAY 1979 - JAN 1980
0000 45 : FIXED VARIOUS MICROCODE BUGS
0000 46 :--
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						0000	50		
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						6692			
6679	8210	6678	8119	8614	6390	21A0	54	.WORD	8608, 25488, -31212, -32487, 26232, -32240, 26233, -32240
						8210			
9BDA	60F0	26A0	012A	898D	8120	893C	55	.WORD	-30324, -32480, -30323, 298, 9888, 24816, -25638, -30322
						898E			
6680	01F0	66D0	0105	6580	102A	2690	56	.WORD	9872, 4138, 25984, 261, 26320, 496, 26288, 256
						0100			
28F0	36F4	811A	0105	4690	831B	60F0	57	.WORD	24816, -31973, 18064, 261, -32486, 14068, 10480, 22161
						5691			
6758	26A8	9750	8C00	479F	6881	8335	58	.WORD	-31947, 26753, 18335, -29696, -26800, 9896, 26456, -28784
						8F90			
897B	833F	6183	8EBF	6158	8991	863A	59	.WORD	-31174, -30319, 24920, -29041, 24963, -31937, -30341, -24320
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						6494			
A60C	8454	A180	6298	010F	6495	01F1	62	.WORD	497, 25749, 271, 25240, -24192, -31660, -23028, 384
						0180			
6288	6298	010F	6690	010C	6290	61CC	63	.WORD	25036, 25232, 268, 26256, 271, 25240, 25224, 383
						017F			
01C0	816D	8766	615B	8C88	A190	66B2	64	.WORD	26290, -24176, -29560, 24923, -30874, -32403, 448, 25241
						6299			
66B2	017E	8768	615B	89FE	66C2	0101	65	.WORD	257, 26306, -30210, 24923, -30872, 382, 26290, -30210
						89FE			
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A600	010C	A455	A444	8141	66B2	01BF	67	.WORD	447, 26290, -32447, -23484, -23467, 268, -23040, 26288
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84A5	A180	86CF	615C	669F	896E	896E	72	.WORD	-30354, -30354, 26271, 24924, -31025, -24192, -31579, -24176
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82C3	7D38	6638	4698	4494	102D	8C34	73	.WORD	-29644, 4141, 17556, 18072, 26168, 32056, -32061, 23701
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84CD	A190	84B3	A180	8F31	21A0	4298	74	.WORD	17048, 8608, -28879, -24192, -31565, -24176, -31539, 9224
						2408			
5E9A	5E99	5E98	102A	F18F	87BB	2110	75	.WORD	8464, -30789, -3697, 4138, 24216, 24217, 24218, 32136
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						0122			
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100C	8E76	6158	2608	8974	86E3	8974	01B0	80	.WORD	24962,-31005,-30348,	9736,	24920,-29066,	4108,	258		
5990	896E	83EE	60F8	0122	83F1	81F7	01BE	81	.WORD	24824,-31759,	290,	24824,-31762,-30354,	22928,-29585			
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6176	8F19	4796	8735	B990	8735	60F8	01D0	84	.WORD	-24288,-30923,-18032,-30923,	18326,-28903,	24950,-29920				
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89F9	6586	1D41	6881	7081	6606	A120	0200	89	.WORD	468,	26118,	28801,	26753,	7489,	25990,-30215,	26166
6636	6636	6636	6636	6636	6636	8B20	020E	90	.WORD	26166,	26166,	26166,	26166,	26166,	26166,	26166
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6586	7DC9	0101	8EFD	8C69	4799	8916	023E	96	.WORD	28801,	18329,-29591,-28931,	257,	32201,	25990,	9974	
6636	6636	8978	6636	8937	26F6	0180	0240	97	.WORD	-32467,	9974,-30409,	26166,-30344,	26166,	26166,	26166	
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A190	8FF9	A120	6696	6693	61C6	01D4	0250	99	.WORD	448,	25030,	26259,	26262,-24288,-28679,-24176,-28679			
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6690	010C	6292	61CA	0180	66BA	0140	0370	107	.WORD	320, 26298, 384, 25034, 25234, 268, 26256, 271
E98F	66C2	0140	8FC7	615A	6288	010F	037E	108	.WORD	25240, 25224, 24922, -28729, 320, 26306, -5745, 384
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6288	6630	5E90	5C95	8AD8	7D38	030	038E	110	.WORD	26168, 32056, -29992, 23701, 24208, 26160, 25224, -3698
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8BE8	60F8	0105	2618	8E73	6182	F18E	03AE	112	.WORD	-30251, 24962, -29069, 9752, 261, 24824, -29720, -30352
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961D	6390	8991	9616	8F90	6158	A698	0410	125	.WORD	-29644, 24920, -28784, -27114, -30319, 25488, -27107, -26279
8C28	A190	9453	A180	4698	89CC	1006	041E	126	.WORD	338, -30260, 18072, -24192, -27565, -24176, -29656, -3704
26FC	956,	9465	6189	6881	8135	9124	045E	127	.WORD	1384, -32459, 26753, 24969, -27547, -27291, 9980, 276
66C2	0102	82A9	667E	669F	0163	5C97	0470	128	.WORD	26270, 355, 26271, 26238, -32087, 258, 26306, -26261
010D	1DA7	9175	0506	1D74	966D	6189	047E	129	.WORD	24962, -27027, 7540, 1286, -28299, 7591, 269, 26270
663A	469A	7990	91BA	3D00	7090	A190	0480	130	.WORD	25918, 28816, 15616, -28230, 31120, 18074, 26170, 30010
6498	6390	610A	01F9	9479	21A0	8C34	048E	131	.WORD	2048, 8608, -27527, 505, 24842, 25488, 25752, 8608
9585	21A0	2418	9482	21A0	2408	9959	0490	132	.WORD	-27521, 9224, 8608, -27518, 9240, 8608, -27259, 8576
8135	938F	60FA	0119	2510	3D00	0152	04A0	133	.WORD	-27756, 15616, 9488, 281, 24826, -27761, -32459, 4105
8926	2217	2206	8135	05FE	1D97	F188	04AE	134	.WORD	2050, 7575, 1534, -32459, 8710, 8727, -30426, 31120
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753A	469A	1DD5	1009	8B25	6670	1005	054E	138	.WORD	18064, 26224,-29915,	4105,	7637,	18074,	30010,	8448
91C0	0110	96BF	8135	2510	7D90	4190	0550	139	.WORD	-29657, 32144,	9488,-32459,-26945,	272,-28224,	273		
66C2	0180	100D	6488	8F31	21A0	6570	055E	140	.WORD	26256, 8608,-28879,	25736,	4109,	384,	26306,	9224
21A0	5C98	94CB	21A0	2418	94CB	2100	056E	141	.WORD	8608,-27448,	9240,	8608,-27445,	23704,	8608,-27442	
469A	1DB4	8135	25B0	0800	7084	8C27	0570	142	.WORD	17560, 28804,	2048,	9648,-32459,	7604,	18074,	26170
012B	65BB	010C	665B	665B	260B	0111	057E	143	.WORD	30010, 9739,	26203,	26203,	268,	26043,	299, 24826
1DF7	1009	8135	93EB	60FA	0110	6690	0580	144	.WORD	-27675, 272,	24826,-27669,-32459,	4105,	7671,	1306	
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8135	65C9	0102	8735	6188	4699	21A0	0590	146	.WORD	28801, 18073,	24968,-30923,	258,	26057,-32459,	31120	
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4699	0802	1004	6498	0140	8135	4498	05A0	148	.WORD	-25854,-32459,	320,	25752,	4100,	2050,	18073, 23704
60F8	0102	26FB	6498	4798	9C08	663A	05AE	149	.WORD	8608,-25592,	18328,	25752,	9979,	258,	24824,-25834
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101F	992A	9D1E	6189	660B	0126	60FA	05BE	151	.WORD	-25317, 294,	26123,	24969,-25314,-26326,	4127,	2048	
658A	9E55	7959	760B	0113	0801	93E5	05C0	152	.WORD	18074, 2049,	275,	30219,	31065,-25003,	25994,	266
011F	5E9F	469D	0801	708B	658A	051A	05CE	153	.WORD	28683, 25994,	28811,	2049,	18077,	24223,	287, 26559
21A0	9A31	667F	5C98	9C31	21A0	01E4	05D0	154	.WORD	25752, 8608,-25551,	23704,	26239,-26063,	8608,-28879		
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6390	6390	6390	618D	892F	66B6	5C98	060E	161	.WORD	263, 26294,-30417,	24973,	25488,	25488,	25488,	25488
27A9	9B7A	6678	66B8	0107	6698	6390	0600	162	.WORD	25488, 26264,	263,	26296,	26232,-25734,	10153,-25220	
9959	9E7F	6390	9985	0160	9974	6390	060E	163	.WORD	8576,-26252,	352,-26235,	25488,-24961,-26279,-29297			

LAADM CODE
V04-000

- LPA-11 DED. A/D MICROCODE

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LADI
V04

100B 669F 015F 8991 9E76 8F90	6159 0700	164	.WORD	24921,-28784,-24970,-30319,	351, 26271, 4107, 24216
8C34 A79C 9C8B A180 5E9B 5E95	5E98 070E 5E99 0710 4494 071E	165	.WORD	24217, 24213, 24219,-24192,-25461,-22628,-29644,	17556
0140 6298 6130 4690 5C97 4495	5C96 0720 61BC 072E	166	.WORD	23702, 17557, 23703, 18064, 24880, 25240,	320, 25020
0180 8C33 A190 9C9A A180 6299	61C0 0730 261E 073E	167	.WORD	25024, 25241,-24192,-25446,-24176,-29645,	384, 9758
0501 1030 9AC2 9FA5 615E 6493	61CE 0740 6188 074E	168	.WORD	25038, 25747, 24926,-24667,-25918,	4144, 1281, 24968
67BE 0107 8F30 615E 6298 0111	6492 0750 61E9 075E	169	.WORD	25746, 273, 25240, 24926,-28880,	263, 26558, 25065
5E99 5E98 710E 610E 610E 0112	8F32 0760 469C 076E	170	.WORD	-28878, 274, 24846, 24846, 28942, 24216, 24217,	18076
658E 7D8B 7D85 7D8C 7D89 7D88	1006 0770 A180 077E	171	.WORD	4102, 32136, 32137, 32140, 32133, 32139, 25998,-24192	
669F 015E 8D35 4190 7081 E98F	9CBF 0780 0180 078E	172	.WORD	-25409, -5745, 28801, 16784,-29387,	350, 26271, 384
9ED0 6182 99A8 61C8 0180 6493	669E 0790 8974 079E	173	.WORD	26270, 25747, 384, 25032,-26200, 24962,-24880,-30348	
0148 6881 8B72 5691 76B4 0107	2614 07A0 469D 07AE	174	.WORD	9748, 263, 30388, 22161,-29838, 26753,	328, 18077
9EDD 21A0 26B0 6499 0180 8938	65CD 07B0 6489 07BE	175	.WORD	26061,-30408, 384, 25753, 9904, 8608,-24867,	25737
8989 9BE7 60F0 2190 9EE0 6390	21A0 07C0 6670 07CE	176	.WORD	8608, 25488,-24864, 8592, 24816,-25625,-30327,	26224
2180 9DEC 21A0 6488 9CE9 21A0	9ADD 07D0 60F0 07DE	177	.WORD	-25891, 8608,-25367, 25736, 8608,-25108,	8576, 24816
4190 6296 0105 9AE9 6670 898A	9BF2 07E0 6297 07EE	178	.WORD	-25614,-30326, 26224,-25879,	261, 25238, 16784, 25239
0000 0000 0000 0000 0000 0000	8135 07F0 0002 07FE 0800	179 180	.WORD .END	-32459, 0, 0, 0, 0, 0, 0,	2

LAADMCODE
Symbol table

- LPA-11 DED. A/D MICROCODE

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[MCLDR.SRC]LAADMCODE.MAR;1

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LPASSADMCODE 00000000 RG 01

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
LPASCODE	00000800 (2048.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC WORD

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	32	00:00:00.06	00:00:00.52
Command processing	103	00:00:00.42	00:00:01.08
Pass 1	78	00:00:01.68	00:00:03.71
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	72	00:00:00.74	00:00:02.45
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	1	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	291	00:00:02.93	00:00:07.79

The working set limit was 750 pages.
7354 bytes (15 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 1 non-local and 0 local symbols.
180 source lines were read in Pass 1, producing 15 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:LAADMCODE/OBJ=OBJ\$:LAADMCODE MSRC\$:LAADMCODE/UPDATE=(ENH\$:LAADMCODE)

LAD
Sym
AD1
AD1
AD1
AD2
AD2
AD2
CAI
CLR
D.O
D.O
D.O
D.O
D.T
D.T
D.T
D.T
D.T
D.T
D.T
DMD
LPA
RIN
RON
RON
SCS
SDT
SEN
SEX
PSE
_LP
Pha
Ini
Com
Pas
Sym
Pas
Sym
Pse
Cro
Ass
The
239

The image displays a grid of 100 small technical diagrams or maps, arranged in 10 rows and 10 columns. Each diagram is a small-scale version of a larger technical drawing, likely a map or a data visualization. The diagrams are titled with various alphanumeric codes, including:

- MELDR
- LALOAD MAP
- XFLOADER MAP
- LALOADER LIS
- XFLOADER LIS
- LADAMCODE LIS
- LALOAD LIS
- MARBLI
- MARBLI MAP
- LALOADER MAP
- LADAMCODE LIS
- MARBLI LIS
- LADMT LIS
- MDL32
- MDL32 MAP
- LAMRMCODE LIS

The diagrams themselves consist of various patterns of lines, dots, and text, representing different data sets or maps. The overall layout is a dense grid of these small technical elements.