



\* NAME BASIC-INIT-A DOC. 70181909000 REV. A PAGE 1

```

0001 * NAME BASIC-INIT-A DOC. 70181909000 REV. A BS100010
0002 * BS100020
0003 * BS100030
0004 * DESCRIPTION INITIALIZATION ROUTINE FOR STAND-ALONE VERSION OF BASIC-16 BS100040
0005 * BS100050
0006 * BS100060
0007 * REVISION HISTORY BS100070
0008 * REV. DATE ECO NO. BS100080
0009 * A RELEASED BS100090
0010 * BS100100
0011 * BS100110
0012 * BS100120
0013 * BS100130
0014 * BS100140
0015 * DOCUMENTATION REFERENCES BS100150
0016 * TITLE DOC. NO. BS100160
0017 * BASIC-16 USER'S MANUAL 70130072543 BS100170
0018 * BS100180
0019 * BS100190
0020 * BS100200
0021 * BS100210
0022 * BS100220
0023 * COPYRIGHT 1971 BY HONEYWELL INFORMATION SYSTEMS INC., COMPUTER BS100230
0024 * SYSTEMS DIVISION, FRAMINGHAM, MASSACHUSETTS. CONTENTS OF THIS BS100240
0025 * PUBLICATION MAY NOT BE REPRODUCED IN ANY FORM, IN WHOLE OR IN BS100250
0026 * PART, WITHOUT PERMISSION OF THE COPYRIGHT OWNER. ALL RIGHTS BS100260
0027 * RESERVED. BS100270
0028 ***** BS100280
0029 EJCI BS100290

```

\* NAME BASIC-INIT-A

DOC. 70181909000

REV. A

PAGE

2

0030		EXT	SII	ADDRESS OF HIGHEST AVAILABLE MEMORY	BS100300
0031	*			LOCATION	BS100310
0032		EXT	PIB	ADDRESS OF LOWEST WORD IN USER SPACE	BS100320
0033		EXT	TYPE	OUTPUTS MESSAGE ON ASR	BS100330
0034		EXT	IPUI	INPUTS A LINE FROM THE ASR	BS100340
0035		EXT	GNBC	GETS NEXT NON-BLANK CHARACTER FROM THE	BS100350
0036	*			INPUT BUFFER	BS100360
0037		EXT	LUDF	FLAGS PAPER TAPE INPUT FROM ASR	BS100370
0038		EXT	LFCK	OUTPUTS CARRIAGE RETURN, LINE FEED ON ASR	BS100380
0039		EXT	JOB	JOB COMMAND PROCESSOR ENTRY	BS100390
0040		EXT	FINI	INTEGER TO FLOATING POINT CONVERSION	BS100400
0041		EXT	DELI	DAC TO ROUTINE TO FLAG ERROR DF	BS100410
0042		EXT	ATND	DAC TO ARCTANGENT FUNCTION	BS100420
0043		EXT	TAND	DAC TO TANGENT FUNCTION	BS100430
0044		EXT	SIND	DAC TO SINE FUNCTION	BS100440
0045		EXT	COSD	DAC TO COSINE FUNCTION	BS100450
0046		EXT	SQRD	DAC TO SQUARE ROOT FUNCTION	BS100460
0047		EXT	SCVL	STORES A NUMBER INTO THE FLOATING POINT	BS100470
0048	*			ACCUMULATOR	BS100480
0049		EXT	PCVL	PRINTS THE NUMBER IN THE FLOATING POINT	BS100490
0050	*			ACCUMULATOR	BS100500
0051		EXT	CI		BS100510
0052		EXT	C10		BS100520
0053		EXT	C215		BS100530
0054		EXT	C240		BS100540
0055		EXT	C241		BS100550
0056		EXT	C260		BS100560
0057	*				BS100570
0058	*				BS100580
0059	*				BS100590
0060		END	INIT		BS100600
0061		END	CSRH	HIGH CROSS SECTOR REFERENCE GENERATOR	BS100610
0062	*				BS100620
0063	*				BS100630
0064	*				BS100640
0065		REL			BS100650
0066	*				BS100660

\* NAME BASIC-INIT-A

DOC. 70181909000

REV. A

PAGE 3

0067

\*

BSI00670

0068

\*

BSI00680

0069

EJCI

BSI00690

0070	*		BS100700
0071	*		BS100710
0072	*	INITIALIZATION ROUTINE	BS100720
0073	*		BS100730
0074	*	CALLING SEQUENCE:	BS100740
0075	*		BS100750
0076	*	JSI INIT	BS100760
0077	*	RETURN IS MADE THROUGH JOB COMMAND PROCESSOR	BS100770
0078	*		BS100780
0079	*		BS100790
0080	*	THE PROGRAM TEXT TABLE BASE POINTER (PTB) IS INITIALIZED	BS100800
0081	*	TO THE LOWEST ADDRESS OF THE INITIALIZATION ROUTINE, AND AN	BS100810
0082	*	IDENTIFICATION MESSAGE IS PRINTED. IF THE IOS WAS LOADED AFTER	BS100820
0083	*	MTHPAK, OR IF MIHPAK WAS LOADED AFTER THE INITIALIZATION ROUTINE,	BS100830
0084	*	AN ILLEGAL CONFIGURATION MESSAGE IS PRINTED, AND THE PROGRAM HALTS.	BS100840
0085	*	IF ANYTHING WAS LOADED BETWEEN MIHPAK AND THE INITIALIZATION	BS100850
0086	*	ROUTINE, THERE IS A JUMP TO SET THE STATEMENT INDEX HIGH POINTER	BS100860
0087	*	(SII). OTHERWISE THE USER IS ASKED IF HE WOULD LIKE TO DELETE ATN.	BS100870
0088	*	A NO ANSWER CAUSES A JUMP TO SET SII. A YES ANSWER CAUSES PTB TO	BS100880
0089	*	BE SET TO THE FIRST WORD OF THE ROUTINE, AND THE POINTER TO THE	BS100890
0090	*	ROUTINE IS REPLACED BY A POINTER TO A ROUTINE WHICH FLAGS A DE-	BS100900
0091	*	LETED LIBRARY FUNCTION (DF) ERROR. THIS SEQUENCE IS THEN REPEATED	BS100910
0092	*	FOR SIN, COS, AND TAN, AND SQRT.	BS100920
0093	*	SII IS INITIALIZED TO THE HIGH CORE MEMORY ADDRESS, AND THE	BS100930
0094	*	USER IS ASKED IF IT IS ALL RIGHT TO USE ALL OF CORE. A YES ANSWER	BS100940
0095	*	CAUSES A JUMP TO CALCULATE THE AMOUNT OF USER SPACE. OTHERWISE THE	BS100950
0096	*	USER INPUT HIGH OCTAL ADDRESS IS FORMED. NON-OCTAL NUMBERS, OVER-	BS100960
0097	*	FLOW, OR AN ADDRESS GREATER THAN THE HIGH CORE ADDRESS CAUSES A	BS100970
0098	*	MESSAGE TO BE PRINTED REQUESTING A YES OR A HIGH OCTAL ADDRESS.	BS100980
0099	*	OTHERWISE SII IS SET TO THE USER INPUT HIGH OCTAL ADDRESS. THE	BS100990
0100	*	AMOUNT OF USER SPACE IS CALCULATED BY SUBTRACTING PTB FROM SII AND	BS101000
0101	*	ADDING ONE. IF THE RESULT IS LESS THAN ELEVEN, A MESSAGE IS	BS101010
0102	*	PRINTED TO FLAG INSUFFICIENT USER SPACE, AND THE ROUTINE LOOPS TO	BS101020
0103	*	RESET SII. OTHERWISE THE AMOUNT OF USER SPACE IS PRINTED, THE CALL	BS101030
0104	*	TO THE INITIALIZATION ROUTINE IS REPLACED WITH A CRA INSTRUCTION,	BS101040
0105	*	AND THE ROUTINE EXITS THROUGH THE JOB COMMAND PROCESSOR.	BS101050
0106	*		BS101060

0107			*				BSI01070
0108	00000	0 000000	INITA DAC *			ADDRESS OF FIRST WORD OF INITIALIZATION	BSI01080
0109			*			ROUTINE	BSI01090
0110	00001	0 000000	INIT DAC **			ENTRY	BSI01100
0111	00002	0 02 00000	LDA INITA			INITIALIZE LOW POINTER TO FIRST WORD	BSI01110
0112	00003	0 04 00000	STA PIB			OF INITIALIZATION ROUTINE	BSI01120
0113	00004	0 04 00000	STA LUDF			SET FLAG FOR NO PAPER TAPE INPUT	BSI01130
0114	00005	0 10 00000	JST LFGR			C/R, LINE FEED	BSI01140
0115	00006	0 10 00000	JST IYPE			OUTPUT ID MESSAGE	BSI01150
0116	00007	0 000000	XAC IDMS			X	BSI01160
0117	00010	0 10 00000	JST LFGR			A COUPLE OF LINE FEEDS	BSI01170
0118	00011	0 10 00000	JST LFGR			X	BSI01180
0119			*				BSI01190
0120			*			CHECK FOR ILLEGAL CONFIGURATION	BSI01200
0121			*				BSI01210
0122	00012	0 02 00205	LDA HMPK			LOAD HIGH ADDRESS OF MTHPAK	BSI01220
0123	00013	0 07 00206	SUB IOSA			SUBTRACT ADDRESS IN IOS	BSI01230
0124	00014	100400	SPL			SKIP IF POSITIVE	BSI01240
0125	00015	0 01 00156	JMP IN06			JUMP TO FLAG ILLEGAL CONFIGURATION IF	BSI01250
0126			*			NEGATIVE	BSI01260
0127	00016	0 02 00205	LDA HMPK			LOAD THE LAST ADDRESS OF THE MTHPAK	BSI01270
0128	00017	101100	SLN			SKIP IF THE ADDRESS IS ODD	BSI01280
0129	00020	141206	AOA			IF IT'S EVEN ADD ONE SINCE LOADING STARTS	BSI01290
0130			*			ON AN EVEN LOCATION	BSI01300
0131	00021	141206	AOA			ADD ONE AND	BSI01310
0132	00022	0 11 00000	CAS INITA			COMPARE WITH THE ADDRESS OF THE FIRST WORD	BSI01320
0133			*			OF THE INITIALIZATION ROUTINE	BSI01330
0134	00023	0 01 00156	JMP IN06			IF THE MTHPAK WAS LOADED AFTER THE INITIAL-	BSI01340
0135			*			IALIZATION ROUTINE THEN JUMP TO FLAG AN	BSI01350
0136			*			ILLEGAL CONFIGURATION	BSI01360
0137	00024	100000	SKP			IF MTHPAK WAS LOADED JUST BEFORE THE	BSI01370
0138			*			INITIALIZATION ROUTINE THEN JUMP TO	BSI01380
0139			*			ASK USER IF HE WISHES TO DELETE ANY OF	BSI01390
0140			*			LIBRARY FUNCTION ROUTINES	BSI01400
0141	00025	0 01 00047	JMP IN01			IF ANYTHING WAS LOADED BETWEEN THE MTHPAK	BSI01410
0142			*			AND THE INITIALIZATION ROUTINE THEN	BSI01420
0143			*			JUMP TO SET THE HIGH POINTER (SII)	BSI01430

0144			*				BS101440
0145			*	SET LOW POINTER, PIB			BS101450
0146			*				BS101460
0147	00026	0 02 00214	IN02	LDA	AIQD	LOAD ADDRESS OF ATN MESSAGE	BS101470
0148	00027	0 10 00161		JST	DFUA	DELETE ARCIANGENT FUCTION	BS101480
0149	00030	0 02 00000		LDA	DELI	YES-REPLACE POINTER TO ATN WITH A	BS101490
0150	00031	0 13 00000		IMA	ATND	POINTER TO ROUTINE TO FLAG ERROR DF	BS101500
0151	00032	0 04 00000		STA	PIB	AND SET LOW POINTER TO FIRST WORD OF ATN	BS101510
0152	00033	0 02 00216		LDA	SCGD	LOAD ADDRESS OF SIN, COS, TAN MESSAGE	BS101520
0153	00034	0 10 00161		JST	DFUA	DELETE SIN, COS, TAN FUNCTIONS	BS101530
0154	00035	0 02 00000		LDA	DELI	YES- REPLACE POINTER TO THOSE FUNCTIONS	BS101540
0155	00036	0 04 00000		STA	TAND	WITH POINTER TO FLAG ERROR DF	BS101550
0156	00037	0 04 00000		STA	SIND	X	BS101560
0157	00040	0 13 00000		IMA	COSD	X	BS101570
0158	00041	0 04 00000		STA	PIB	SET LOW POINTER TO FIRST WORD OF COS	BS101580
0159	00042	0 02 00215		LDA	SQGD	LOAD ADDRESS OF SQUARE ROOT MESSAGE	BS101590
0160	00043	0 10 00161		JST	DFUA	DELETE SQUARE ROOT FUNCTION	BS101600
0161	00044	0 02 00000		LDA	DELI	YES-REPLACE POINTER TO SQUARE ROOT FUNCTION	BS101610
0162	00045	0 13 00000		IMA	SQRD	WITH POINTER TO ROUTINE TO FLAG ERROR DF	BS101620
0163	00046	0 04 00000		STA	PIB	AND SET LOW POINTER TO FIRST WORD OF SQR	BS101630
0164			*				BS101640
0165			*	NOW SET HIGH POINTER, SIT			BS101650
0166			*				BS101660
0167	00047	0 02 00211	IN01	LDA	C16K	LOAD HIGHEST POSSIBLE ADDRESS (16K)	BS101670
0168	00050	0 04 00000	IN10	STA	SIT	STORE ADDRESS IN HIGH POINTER	BS101680
0169	00051	-0 13 00000		IMA*	SIT	CHECK IF ADDRESS EXISTS BY STORING,	BS101690
0170	00052	-0 13 00000		IMA*	SIT	THEN LOADING (BUT DON'T DESTROY CONTENTS OF	BS101700
0171	00053	0 05 00000		ERA	SIT	ADDRESS), AND COMPARING	BS101710
0172	00054	101040		SNZ		TEST IF THE SAME	BS101720
0173	00055	0 01 00060		JMP	*+3	YES-HIGH MEMORY ADDRESS IS IN SIT	BS101730
0174	00056	0 07 00210		SUB	C4K	NO-SUBTRACT 4K	BS101740
0175	00057	0 01 00050		JMP	IN10	AND TRY AGAIN	BS101750
0176	00060	0 10 00000		JST	TYPE	ASK USER IF HE WOULD LIKE TO USE ALL OF	BS101760
0177	00061	0 000000		XAL	HMAM	CORE	BS101770
0178	00062	0 10 00000	IN03	JST	TYPE	REQUEST A YES OR HIGH OCIAL ADDRESS	BS101780
0179	00063	0 000000		XAL	AYOH	X	BS101790
0180	00064	0 10 00000		JST	LFCR	C/R, LINE FEED	BS101800

0181	00065	0 02 00000	LDA	C241	OUTPUT EXCLAMATION POINT	BS101810	
0182	00066	0 10 00000	JST	IP01	THEN INPUT LINE FROM ASK	BS101820	
0183	00067	0 000000	XAC	SBUF	INPUT BUFFER	BS101830	
0184	00070	0 10 00000	JST	GNBC	GET THE FIRST NON-BLANK CHARACTER	BS101840	
0185	00071	0 11 00213	CAS	C331	IS IT A 'Y'	BS101850	
0186	00072	0 01 00062	JMP	IN03	NOT Y OR NUMBER-REQUEST YES OR HIGH	BS101860	
0187			*		OCTAL ADDRESS	BS101870	
0188	00073	0 01 00127	JMP	IN04	YES-ASSUME YES ANSWER-JUMP TO CALCULATE	BS101880	
0189			*		USER SPACE	BS101890	
0190	00074	000201	IAB		SAVE THE CHARACTER	BS101900	
0191	00075	140040	CRA	CRA		BS101910	
0192	00076	0 04 00207	STA	HOA	INITIALIZE HIGH OCTAL ADDRESS TO ZERO	BS101920	
0193	00077	000201	IAB		AND CLEAR B REGISTER	BS101930	
0194			*			BS101940	
0195			*	HERE TO INPUT USER HIGH	OCTAL ADDRESS	BS101950	
0196			*			BS101960	
0197	00100	0 07 00000	IN05	SUB	C260	SUBTRACT *260 TO GET PURE NUMBER	BS101970
0198	00101	100400	SPL			MAKE SURE IT'S NOT LESS THAN ZERO	BS101980
0199	00102	0 01 00062	JMP	IN03		IF LESS, REQUEST YES OR HIGH ADDRESS	BS101990
0200	00103	0 11 00000	CAS	C10		OR GREATER THAN 7	BS102000
0201	00104	101000	NOP			X	BS102010
0202	00105	0 01 00062	JMP	IN03		IF GREATER, THEN REQUEST YES OR HIGH OCTAL	BS102020
0203			*			ADDRESS	BS102030
0204	00106	0 13 00207	IMA	HOA		MAKE ROOM FOR THE DIGIT	BS102040
0205	00107	0412 75	LLR	3		BY SHIFTING ADDRESS THREE PLACES LEFT	BS102050
0206	00110	0 05 00207	ERA	HOA		ADD THE DIGIT	BS102060
0207	00111	000201	IAB			MAKE SURE THERE IS NO OVERFLOW BY TESTING	BS102070
0208	00112	100040	SZE			THE B REGISTER	BS102080
0209	00113	0 01 00062	JMP	IN03		OVERFLOW-REQUEST YES OR HIGH OCTAL ADDRESS	BS102090
0210	00114	000201	IAB			REPOSITION	BS102100
0211	00115	0 04 00207	STA	HOA		SAVE ADDRESS	BS102110
0212	00116	0 10 00000	JST	GNBC		GET NEXT NON-BLANK CHARACTER	BS102120
0213	00117	0 11 00000	CAS	C215		CHECK FOR C/R	BS102130
0214	00120	0 01 00100	JMP	IN05		NO-LOOP TO ADD DIGIT TO HIGH ADDRESS	BS102140
0215	00121	0 02 00207	LDA	HOA		YES-LOAD USER HIGH INPUT ADDRESS	BS102150
0216	00122	101400	SMT			SKIP IF USER INPUT HIGH ADDRESS IS NEGATIVE	BS102160
0217	00123	0 11 00000	CAS	S11		COMPARE WITH HIGH CORE ADDRESS	BS102170

\* NAME BASIC-INIT-A

DJC. 70181909000

REV. A

PAGE

8

0218	00124	0 01 00062	JMP	IN03	USER INPUT HIGH ADDRESS IS TOO LARGE OR	BS102180
0219			*		NEGATIVE-JUMP TO INPUT AGAIN	BS102190
0220	00125	101000	NOP		X	BS102200
0221	00126	0 04 00000	STA	S11	OK-SAVE AS HIGH POINTER	BS102210
0222			*			BS102220
0223			*		CALCULATE AND PRINT TOTAL USER SPACE	BS102230
0224			*			BS102240
0225	00127	0 02 00000	IN04 LDA	S11	LOAD HIGH POINTER	BS102250
0226	00130	0 07 00000	SUB	PI15	SUBTRACT LOW POINTER	BS102260
0227	00131	0 06 00000	ADD	C1	ADD ONE	BS102270
0228	00132	0 11 00000	CAS	C10	MAKE SURE IT ISN'T TOO SMALL	BS102280
0229	00133	0 01 00141	JMP	*+6	OK-JUMP TO PRINT USER SPACE MESSAGE	BS102290
0230	00134	101000	NOP		X	BS102300
0231	00135	0 10 00000	JSI	TYPE	TOO SMALL-FLAG INSUFFICIENT USER SPACE	BS102310
0232	00136	0 000000	XAC	155M	X	BS102320
0233	00137	0 10 00000	JSI	LFCR	C/R, LINE FEED	BS102330
0234	00140	0 01 00047	JMP	IN01	LOOP TO SET HIGH POINTER	BS102340
0235	00141	0 10 00000	JSI	FINI	FLOAT THE NUMBER	BS102350
0236	00142	0 10 00000	JSI	SCVL	STORE IT INTO FLOATING POINT ACCUMULATOR	BS102360
0237	00143	0 02 00000	LDA	C240	SURPRESS BLANKS	BS102370
0238	00144	0 10 00000	JSI	PCVL	PRINT THE NUMBER	BS102380
0239	00145	0 10 00000	JSI	TYPE	PRINT USER SPACE MESSAGE	BS102390
0240	00146	0 000000	XAC	USPM	X	BS102400
0241	00147	0 10 00000	JSI	LFCR	C/R, LINE FEED	BS102410
0242			*			BS102420
0243			*		CHANGE CALL TO THE INITIALIZATION ROUTINE TO A CRA	BS102430
0244			*			BS102440
0245	00150	0 02 00001	LDA	INIT	LOAD ADDRESS PLUS ONE OF CALL	BS102450
0246	00151	0 07 00000	SUB	C1	SUBTRACT ONE	BS102460
0247	00152	0 04 00001	STA	INIT	AND SAVE	BS102470
0248	00153	0 02 00075	LDA	CRA	LOAD CRA	BS102480
0249	00154	-0 04 00001	STA*	INIT	STORE IN LOCATION OF CALL	BS102490
0250	00155	0 01 00000	JMP	JOB	EXIT THROUGH JOB COMMAND PROCESSOR	BS102500
0251			*			BS102510
0252			*		HERE TO FLAG AN ILLEGAL CONFIGURATION	BS102520
0253			*			BS102530
0254	00156	0 10 00000	IN06 JSI	TYPE	PRINT MESSAGE TO RELOAD	BS102540



\* NAME BASIC-INIT-A

DOC. 70181909000

REV. A

PAGE 9

0255 00157 0 000217  
0256 00160 000000  
0257  
0258

\*

DAC ILCM  
HLT  
EJCT

X  
AND HALT

BS102550  
BS102560  
BS102570  
BS102580

0259	*					BS102590
0260	*					BS102600
0261	*			DELETE LIBRARY FUNCTION ROUTINE		BS102610
0262	*					BS102620
0263	*			CALLING SEQUENCE:		BS102630
0264	*					BS102640
0265	*			JSI DFUA	ADDRESS OF MESSAGE CONTAINING FUNCTION	BS102650
0266	*				NAME(S) IN THE A REGISTER	BS102660
0267	*			.....RETURN	IF YES ANSWER	BS102670
0268	*					BS102680
0269	*					BS102690
0270	*			A MESSAGE IS PRINTED ASKING THE USER IF HE WOULD LIKE TO		BS102700
0271	*			DELETE THE LIBRARY FUNCTION(S) WHOSE NAME(S) IS CONTAINED IN THE		BS102710
0272	*			MESSAGE. A LINE IS INPUTED FROM THE ASR, AND THE FIRST NON-BLANK		BS102720
0273	*			CHARACTER IS TESTED. IF IT IS A Y, RETURN IS MADE. IF IT IS A N,		BS102730
0274	*			THE ROUTINE JUMPS INTO INIT TO SET SII. IF THE FIRST NON-BLANK		BS102740
0275	*			CHARACTER IS OTHER THAN A Y OR A N, A MESSAGE IS PRINTED REQUESTING		BS102750
0276	*			A YES OR A NO ANSWER.		BS102760
0277	*					BS102770
0278	*					BS102780
0279	00161	0	000000	DFUA DAC **	ENTRY	BS102790
0280	00162	0	04 00166	STA DFID	STORE FUNCTION NAME MESSAGE	BS102800
0281	00163	0	10 00000	JSI TYPE	OUTPUT QUESTION PREFIX	BS102810
0282	00164	0	000000	XAC DFG	X	BS102820
0283	00165	0	10 00000	JSI TYPE	PRINT FUNCTION NAME	BS102830
0284	00166	0	000000	DFID DAC **	X	BS102840
0285	00167	0	10 00000	JSI LFCR	OUTPUT C/R, LINE FEED	BS102850
0286	00170	0	02 00000	DF02 LDA C241	OUTPUT AN EXCAMATION POINT	BS102860
0287	00171	0	10 00000	JSI IPUT	INPUT FROM THE ASR UNTIL A C/R	BS102870
0288	00172	0	000000	XAC SBUF	INPUT BUFFER	BS102880
0289	00173	0	10 00000	JSI GNBC	GET THE FIRST NON-BLANK CHARACTER	BS102890
0290	00174	0	11 00213	CAS C331	IS IT A 'Y'	BS102900
0291	00175	0	01 00202	JMP DF01	NO-REQUEST A YES OR A NO	BS102910
0292	00176	-0	01 00161	JMP* DFUA	Y-ASSUME YES ANSWER-EXIT TO RESET LOW	BS102920
0293				*	POINTER	BS102930
0294	00177	0	11 00212	CAS C316	IS IT A 'N'	BS102940
0295	00200	1	00000	SKP	NO-REQUEST A YES OR NO ANSWER	BS102950

\* NAME BASIC-INIT-A

DOC. 70181909000

REV. A

PAGE 11

```
0296 00201 0 01 00047      JMP   IN01
0297 00202 0 10 00000 DF01 JSI   TYPE
0298 00203 0 000000      XAC   AY0N
0299 00204 0 01 00170      JMP   DF02
0300                      EJCI
```

```
N-ASSUME NO ANSWER-JUMP TO SET HIGH POINTERBSI02960
NO-REQUEST A YES OR NO ANSWER      BSI02970
X                                     BSI02980
LOOP TO INPUT ANSWER                BSI02990
                                      BSI03000
```

\* NAME BASIC-INIT-A

DOC. 70181909000

REV. A

PAGE 12

0301			*						BS103010
0302			*						BS103020
0303			*						BS103030
0304	00205	0 000000	HMPK	XAC	PP12		ADDRESS OF LAST WORD OF MTKPAK		BS103040
0305	00206	0 000000	IUSA	XAC	1P01		ADDRESS IN IUS PACKAGE		BS103050
0306	00207	000000	HUA	BSZ	1				BS103060
0307	00210	010000	C4K	UCI	10000				BS103070
0308	00211	037777	C16K	UCI	37777				BS103080
0309	00212	000316	C316	UCI	316		ASCII N		BS103090
0310	00213	000331	C331	UCI	331		ASCII Y		BS103100
0311	00214	0 000000	ATQD	XAC	ATNQ		ADDRESS OF ATN NAME MESSAGE		BS103110
0312	00215	0 000000	SQWD	XAC	SQRQ		ADDRESS OF SIN, COS, AND TAN NAME MESSAGE		BS103120
0313	00216	0 000000	SCWD	XAC	SCIQ		ADDRESS OF SQR NAME MESSAGE		BS103130
0314	00217	144714	ILCM	BCI	14,1	ILLEGAL CONFIGURATION-RELOAD			BS103140
	00220	146305							
	00221	143701							
	00222	146240							
	00223	141717							
	00224	147306							
	00225	144707							
	00226	152722							
	00227	140724							
	00230	144717							
	00231	147255							
	00232	151305							
	00233	146317							
	00234	140704							
0315	00235	000000		UCI	0				BS103150
0316		000236	CSRH	EGU	*		USING LDR-APM, THIS WILL GENERATE THE LAST		BS103160
0317			*				CROSS SECTOR REFERENCE IN SECTOR ZERO		BS103170
0318			*						BS103180
0319			*						BS103190
0320			*						BS103200
0321				END					BS103210

ATND	000000E	ATQD	000214	C1	000000E	C10	000000E
C16K	000211	C215	000000E	C240	000000E	C241	000000E

\* NAME BASIC-INIT-A

DOC. 70181909000

REV. A

PAGE 13

C260	000000E	C316	000212	C331	000213	C4K	000210
CUSD	000000E	CRA	000075	CSR	000236	DEL1	000000E
DF01	000202	DF02	000170	DF10	000166	DFUA	000161
FINI	000000E	GNBC	000000E	HMPK	000205	HQA	000207
I LCM	000217	IN01	000047	IN02	000026	IN03	000062
IN04	000127	IN05	000100	IN06	000156	IN10	000050
INIT	000001	INTA	000000	IUSA	000206	IPU1	000000E
JOB	000000E	LFGR	000000E	LUDF	000000E	PCVL	000000E
PTB	000000E	SCQD	000216	SCVL	000000E	SIND	000000E
SIT	000000E	SQGD	000215	SQRD	000000E	TAND	000000E
TYPE	000000E						

0000 WARNING OR ERROR FLAGS

DAP-16 MOD 2 REV. D 06-28-71