

DDP-116/516
INPUT/OUTPUT LIBRARY LISTING
D U M Y - X 16



HONEYWELL Computer Control Division



COMPUTER CONTROL DIVISION (EUROPE)

PROGRAM DOCUMENTATION

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* COMPUTER: DDP-116, DDP-516

* PROGRAM CATEGORY: INPUT/OUTPUT

* PROGRAM TITLE: DUMY-X16

TO SATISFY THE I/O LIBRARY CALLS ON SYSTEMS WITH LIMITED
SCOPE THAT DO NOT USE THE FULL COMPLEMENT OF THE DDP-116,
DDP-516 I/O EQUIPMENT.

APPROVAL

DATE

PROG-----

SUPR-----

QUAL-----

P. V. Pothengelt

25. 11. 68

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0049	* PURPOSE	DUMY0049
0050	*	DUMY0050
0051	* TO SATISFY THE I/O LIBRARY CALLS ON SYSTEMS WITH LIMITED	DUMY0051
0052	* SCOPE THAT DO NOT USE THE FULL COMPLEMENT OF THE DDP-116 AND	DUMY0052
0053	* DDP-516 I/O EQUIPMENT.	DUMY0053
0054	*	DUMY0054
0055	*	DUMY0055
0056	* RESTRICTIONS	DUMY0056
0057	*	DUMY0057
0058	* THIS PROGRAM WILL OPERATE ON ANY DDP-116 OR DDP-516.	DUMY0058
0059	*	DUMY0059
0060	*	DUMY0060
0061	* STORAGE	DUMY0061
0062	*	DUMY0062
0063	* THIS PROGRAM OCCUPIES LESS THAN ONE SECTOR.	DUMY0063
0064	*	DUMY0064
0065	*	DUMY0065
0066	* USE	DUMY0066
0067	*	DUMY0067
0068	* 1. CALLING SEQUENCE	DUMY0068
0069	*	DUMY0069
0070	* THE CALLED NAME OF EACH ROUTINE IS THE SAME AS THE NAME	DUMY0070
0071	* OF THE I/O ROUTINE IT REPLACES. WHEN A NON-EXISTANT I/O DEVICE	DUMY0071
0072	* IS CALLED, AN ERROR MESSAGE IS TYPED ON THE ASR-33/35 AND THE	DUMY0072
0073	* COMPUTER HALTS. THE PROGRAM BEING EXECUTED CAN BE RE-STARTED	DUMY0073
0074	* BY RESELECTING THE CORRECT I/O DEVICES.	DUMY0074



0075	*		DUMY0075
0076	*****		DUMY0076
0077	*	TABLE OF ENTRIES FOR DUMMY SUBROUTINE	DUMY0077
0078	*		DUMY0078
0079		SUBR DUMMY,DUMY DUMMY ROUTINE	DUMY0079
0080	*		DUMY0080
0081	*		DUMY0081
0082	*	ASR BCD PAPER TAPE READ	DUMY0082
0083	*		DUMY0083
0084		SUBR I\$AA,DUMY	DUMY0084
0085	*		DUMY0085
0086	*	ASR BINARY PAPER TAPE PUNCH	DUMY0086
0087	*		DUMY0087
0088		SUBR O\$AB,DUMY	DUMY0088
0089		SUBR O\$AS,DUMY	DUMY0089
0090	*	ASR LISTING	DUMY0090
0091	*		DUMY0091
0092		SUBR O\$AH,DUMY	DUMY0092
0093		SUBR O\$AL,DUMY	DUMY0093
0094	*		DUMY0094
0095	*	LINE PRINTER	DUMY0095
0096	*		DUMY0096
0097		SUBR O\$LA,DUMY	DUMY0097
0098		SUBR O\$LH,DUMY	DUMY0098
0099		SUBR O\$LE,DUMY	DUMY0099
0100	*	ASCII PAPER TAPE READ	DUMY0100
0101	*		DUMY0101
0102		SUBR I\$PA,DUMY	DUMY0102
0103	*		DUMY0103
0104	*	BINARY PAPER TAPE PUNCH	DUMY0104
0105	*		DUMY0105
0106		SUBR O\$PB,DUMY	DUMY0106
0107		SUBR O\$PS,DUMY	DUMY0107
0108		SUBR O\$PLDR,DUMY	DUMY0108
0109	*		DUMY0109
0110	*	PAPER TAPE PUNCH LISTING	DUMY0110
0111	*		DUMY0111



0112	SUBR	O\$PL,DUMY	DUMY0112
0113	SUBR	O\$PH,DUMY	DUMY0113
0114	*		DUMY0114
0115	* ASR LISTING		DUMY0115
0116	*		DUMY0116
0117	SUBR	O\$HH,DUMY	DUMY0117
0118	SUBR	O\$LL,DUMY	DUMY0118
0119	*		DUMY0119
0120	* BCD CARD READ		DUMY0120
0121	*		DUMY0121
0122	SUBR	I\$CA,DUMY	DUMY0122
0123	*		DUMY0123
0124	* BINARY CARD PUNCH		DUMY0124
0125	*		DUMY0125
0126	SUBR	O\$CB,DUMY	DUMY0126
0127	*		DUMY0127
0128	* BCD + BINARY MAG TAPE WRITE		DUMY0128
0129	*		DUMY0129
0130	SUBR	O\$MA,DUMY	DUMY0130
0131	SUBR	O\$MC,DUMY	DUMY0131
0132	SUBR	O\$ME,DUMY	DUMY0132
0133	*		DUMY0133
0134	* BCD + BINARY MAG TAPE READ		DUMY0134
0135	*		DUMY0135
0136	SUBR	I\$MA,DUMY	DUMY0136
0137	* MAG TAPE CONTROL		DUMY0137
0138	*		DUMY0138
0139	SUBR	C\$MR,DUMY	DUMY0139
0140	SUBR	C\$FR,DUMY	DUMY0140
0141	SUBR	C\$BR,DUMY	DUMY0141
0142	SUBR	C\$FF,DUMY	DUMY0142
0143	SUBR	C\$BF,DUMY	DUMY0143
0144	*		DUMY0144
0145	* ASCII TO IBM CONVERSION		DUMY0145
0146	*		DUMY0146
0147	SUBR	C\$8T06,DUMY	DUMY0147
0148	*		DUMY0148



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0149
0150 * IBM TO ASCII CONVERSION
0151 *
0152 SUBR C$6T08,DUMY
0153 *
0154 *****
0155 00000 0 000000 DUMY DAC ** DUMMY ENTRY TO PROGRAM
0156 00001 0 10 00031 JST ASR ASR BUSY TEST
0157 00002 0 10 00046 JST CRLF EXECUTE CARRIAGE RETURN/LINE FEED
0158 00003 0 02 00113 LDA =-16 PUT A -16 IN
0159 00004 0 04 00000 STA 0 THE INDEX REGISTER FOR THE FIRST MESSAGE
0160 00005 0 10 00031 JST ASR ASR BUSY TEST
0161 00006 1 02 00076 MESS LDA MSG+16,1 FIRST MESSAGE
0162 00007 0 10 00036 JST SHFT SHIFT AND OUTPUT TWO CHARACTERS
0163 00010 0 12 00000 IRS 0 INCREMENT AND CHECK XR
0164 00011 0 01 00006 JMP MESS OUTPUT SOME MORE
0165 00012 0 10 00046 JST CRLF WHEN DONE DO A CR/LF
0166 00013 0 02 00112 NOBE LDA =-8 PUT A -8 IN THE
0167 00014 0 04 00000 STA 0 INDEX REGISTER FOR SECOND MESSAGE
0168 00015 0 02 00106 LDA NEGN PUT THE NEGATIVE NUMBER IN THE A REGISTER
0169 00016 0 04 00107 STA DLAY PUT IT THE DELAY LOCATION
0170 00017 0 12 00107 IRS DLAY DELAY LOOP
0171 00020 0 01 00017 JMP *-1 FOR THE ASR-33
0172 00021 0 10 00031 JST ASR ASR BUSY TEST
0173 00022 1 02 00106 MES1 LDA MSG+8,1 SECOND MESSAGE
0174 00023 0 10 00036 JST SHFT SHIFT AND OUTPUT TWO CHARACTERS
0175 00024 0 12 00000 IRS 0 INCREMENT AND CHECK XR
0176 00025 0 01 00022 JMP MES1 OUTPUT MORE OF THE MESSAGE UNTIL DONE THEN
0177 00026 0 10 00046 JST CRLF DO A CARRIAGE RETURN/LINE FEED
0178 00027 000000 HLT NORMAL HALT
0179 00030 0 01 00013 JMP NOBE RETURN FOR THE NON-BELIEVERS
0180 00031 0 000000 ASR DAC ** CHECK ASR BUSY ROUTINE
0181 00032 34 0104 SKS '104 IS THE ASR BUSY
0182 00033 0 01 00032 JMP *-1 YES, LOOP UNTIL FREE
0183 00034 14 0104 OCP '104 NO, ENABLE FOR OUTPUT
0184 00035 -0 01 00031 JMP* ASR RETURN TO CALLER
0185 00036 0 000000 SHFT DAC ** SHIFT AND OUTPUT TWO CHARACTERS ROUTINE

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0186	00037	0400 70	LRL	8	BRING IN FIRST CHARACTER	DUMY0186
0187	00040	74 0004	OTA	4	OUTPUT IT	DUMY0187
0188	00041	0 01 00040	JMP	*-1	WAIT UNTIL DONE OUTPUTTING	DUMY0188
0189	00042	0410 70	LLL	8	BRING IN SECOND CHARACTER	DUMY0189
0190	00043	74 0004	OTA	4	OUTPUT IT	DUMY0190
0191	00044	0 01 00043	JMP	*-1	WAIT UNTIL ASR DONE	DUMY0191
0192	00045	-0 01 00036	JMP*	SHFT	RETURN TO CALLER	DUMY0192
0193	00046	0 000000	CRLF DAC	**	CARRIAGE RETURN AND LINE FEED ROUTINE	DUMY0193
0194	00047	0 02 00111	LDA	= '212	OCTAL EQUIVALENT OF A CARRIAGE RETURN	DUMY0194
0195	00050	74 0004	OTA	4	OUTPUT IT	DUMY0195
0196	00051	0 01 00050	JMP	*-1	WAIT UNTIL DONE	DUMY0196
0197	00052	0 02 00110	LDA	= '215	OCTAL EQUIVALENT OF A LINE FEED	DUMY0197
0198	00053	74 0004	OTA	4	OUTPUT IT	DUMY0198
0199	00054	0 01 00053	JMP	*-1	WAIT UNTIL DONE	DUMY0199
0200	00055	-0 01 00046	JMP*	CRLF	RETURN TO CALLER	DUMY0200
0201	00056	147317	MSG BCI	16, NON-EXISTANT I/O DEVICE SELECTED		DUMY0201
	00057	147255				
	00060	142730				
	00061	144723				
	00062	152301				
	00063	147324				
	00064	120311				
	00065	127717				
	00066	120304				
	00067	142726				
	00070	144703				
	00071	142640				
	00072	151705				
	00073	146305				
	00074	141724				
	00075	142704				
0202	00076	151305	MSG BCI	8, RESTART PROGRAM		DUMY0202
	00077	151724				
	00100	140722				
	00101	152240				
	00102	150322				
	00103	147707				



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00105 146640
0203 00106 007777
0204 00107
0205 00110 000215
00111 000212
00112 177770
00113 177760

NEGN OCT 7777
DLAY BSS 1
END

THE NEGATIVE NUMBER FOR THE ASR DELAY
THIS THE DELAY LOCATION
THIS IS IT

DUMY0203
DUMY0204
DUMY0205

NO ERRORS IN ABOVE ASSEMBLY.
DAP-16 INHOUSE 1.7.68 PVP