

SYMBOL	TYPE	ID	ADDR	LENGTH	LDID
A3270	SD	0001	000000	000735	

ASM 0201 05.27 01/08/10

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 05.27 01/08/10
2				*	*****	00000002
3				*		00000003
4				*	A3270 - ASSEMBLER PROGRAM TO DEMO MAP3270	00000004
5				*	NOTE - THE PROGRAM IS INTENDED TO BE USED FOR DEMO	00000005
6				*	PURPOSES AND IS NOT PRODUCTION QUALITY.	00000006
7				*		00000007
8				*	-----	00000008
9				*		00000009
10				*	(C) COPYRIGHT 2009 CEDAR LAKE EMPORIUM LLC ALL RIGHTS RESERVED	00000010
11				*		00000011
12				*	THIS SOURCE CODE AS WELL AS ANY OBJECT CODE RESULTING FROM THIS	00000012
13				*	SOURCE CODE MAY BE DISTRIBUTED FREELY PROVIDED NO FEE IS CHARGED	00000013
14				*	AND FOR NON-COMERCIAL PURPOSES.	00000014
15				*		00000015
16				*	FOR COMMERCIAL DISTRIBUTION RIGHTS, CONTACT THE COPYRIGHT OWNER.	00000016
17				*		00000017
18				*	*****	00000018
19	A3270				ESTART TYPE=START,DESC='3270 IO TEST DEMO',VER='1.0.0', REGS=YES,BASE=R12	*00000019
000000				20+A3270	START	00000020
				21+*		00000019
000000	47FF 0080	00080		22+ID10001	B ID40001(15) BRANCH AROUND IDENT CONSTANTS	00000039
000004	7B			23+	DC AL1(ID30001-ID20001)	00000041
000005	C1F3F2F7F0404040			24+ID20001	DC CL8'A3270'	00000042
00000D	F14BF04BF0			25+	DC C'1.0.0'	00000043
000012	40F0F161F0F861F1			26+	DC C' 01/08/10 05.27 - '	00000044
000024	F3F2F7F040C9D640			27+	DC C'3270 IO TEST DEMO'	00000045
000038				28+	DS 0F	00000046
		00038		29+IDS0001	EQU *-ID10001	00000047
000038				30+	DS 18F	00000048
000080				31+ID30001	DS 0H	00000049
		00000		32+R0	EQU 0	00000007
		00001		33+R1	EQU 1	00000008
		00002		34+R2	EQU 2	00000009
		00003		35+R3	EQU 3	00000010
		00004		36+R4	EQU 4	00000011
		00005		37+R5	EQU 5	00000012
		00006		38+R6	EQU 6	00000013
		00007		39+R7	EQU 7	00000014
		00008		40+R8	EQU 8	00000015
		00009		41+R9	EQU 9	00000016
		0000A		42+R10	EQU 10	00000017
		0000B		43+R11	EQU 11	00000018
		0000C		44+R12	EQU 12	00000019
		0000D		45+R13	EQU 13	00000020
		0000E		46+R14	EQU 14	00000021
		0000F		47+R15	EQU 15	00000022
		00080		48+ID40001	EQU *-ID10001	00000054
				49+*		00000055
000080	90EC D00C	0000C		50+	STM 14,12,12(13)	00000056
				51+*		00000057
000084	185D			52+	LR 5,13 COPY CALLER'S SAVEAREA ADDR	00000058
000086	41DF 0038	00038		53+	LA 13,IDS0001(15) ESTABLISH MY SAVEAREA	00000059
00008A	5050 D004	00004		54+	ST 5,4(,13) BACK CHAIN SAVE AREAS	00000060
00008E	50D0 5008	00008		55+	ST 13,8(,5) FORWARD CHAIN SAVE AREAS	00000061

Comment [MSOffice1]: Program Name

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 05.27 01/08/10
000092	05C0			56+	BALR R12,0	ESTABLISH BASE REG VALUE
			00094	57+	USING *,R12	
				58 *		
000094	5810 C4F0	00584		59	L R1,T3270ADR	
000098	1211			60	LTR R1,R1	
00009A	4770 C018	000AC		61	BNZ SKIPLD	
				62	LOAD EPLOC=T3270IO	
00009E	0700			63+	CNOP 0,4	
0000A0	4100 C4E8	0057C		64+	LA 0,T3270IO	LOAD PARAMETER INTO REG 0
0000A4	1B11			65+	SR 1,1	SHOW NO DCB PRESENT
0000A6	0A08			66+	SVC 8	
0000A8	5000 C4F0	00584		67	ST R0,T3270ADR	
		000AC		68	SKIPLD EQU *	
				69 *		
				70 *	INITIALIZE THE IOCB AND SET IT UP FOR AN STRT	
				71 *		
0000AC	9200 C4F4	00588		72	MVI IOCB,X'00'	
0000B0	D21E C4F5 C4F4	00589 00588		73	MVC IOCB+1 (IOCBLN-1),IOCB	
0000B6	D203 C4F4 C684	00588 00718		74	MVC IOCBFUNC,=C'STRT'	
				75	TCALL T3270ADR,IOCB,TPARM	
0000BC				76+	CNOP 0,4	
0000BC	4510 C034	000C8		77+	BAL R1,TCAL0004	SET UP THE PARMS
0000C0	00000588			78+	DC A (IOCB)	
0000C4	80			79+	DC AL1 (X'80')	
0000C5	0005A8			80+	DC AL3 (TPARM)	
0000C8	58F0 C4F0	00584		81+TCAL0004	L R15,T3270ADR	CRT IO IS PRELOADED, PUT ADDR
0000CC	05EF			82+	BALR R14,R15	IN R15 AND CALL
				83 *		
				84 *	SET UP IOCB FOR AN IO	
				85 *		
		000CE		86 IOLOOP	EQU *	
0000CE	D203 C4F4 C688	00588 0071C		87	MVC IOCBFUNC,=C'IO '	
0000D4	92E7 C526	005BA		88	MVI R12C46C,C'X'	
0000D8	D217 C536 C690	005CA 00724		89	MVC R15C40D,=C'ASSEMBLER CALLING'	
				90	TCALL T3270ADR,IOCB,TPARM	
0000DE	0700			91+	CNOP 0,4	
0000E0	4510 C058	000EC		92+	BAL R1,TCAL0005	SET UP THE PARMS
0000E4	00000588			93+	DC A (IOCB)	
0000E8	80			94+	DC AL1 (X'80')	
0000E9	0005A8			95+	DC AL3 (TPARM)	
0000EC	58F0 C4F0	00584		96+TCAL0005	L R15,T3270ADR	CRT IO IS PRELOADED, PUT ADDR
0000F0	05EF			97+	BALR R14,R15	IN R15 AND CALL
0000F2	95F3 C522	005B6		98	CLI TAID,AIDPFK03	PF3 PRESSED?
0000F6	4780 C0AE	00142		99	BE EXIT	
0000FA	F321 C0E4 C522	00178 005B6		100	UNPK WORK3,TAID(2)	
000100	DC01 C0E4 C0E7	00178 0017B		101	TR WORK3(2),TRTAB-C'0'	
000106	D201 C529 C0E4	005BD 00178		102	MVC R12C46D,WORK3	
00010C	92E7 C526	005BA		103	MVI R12C46C,C'X'	
000110	D217 C536 C690	005CA 00724		104	MVC R15C40D,=C'ASSEMBLER CALLING'	
000116	5820 C4FC	00590		105	L R2,IOCBADR	
00011A	D24E C587 2000	0061B 00000		106	MVC R21C01D(79),0 (R2)	
000120	D24E C5D9 2000	0066D 00000		107	MVC R22C01D(79),0 (R2)	
000126	D24E C62B 2000	006BF 00000		108	MVC R23C01D(79),0 (R2)	
00012C	DC4E C587 C1E8	0061B 0027C		109	TR R21C01D(79),CHRTBL	
000132	DC4E C5D9 C2E8	0066D 0037C		110	TR R22C01D(79),HITBL	

**Comment [MSOffice2]:** Dynamicoy load T3270IO.

**Comment [MSOffice3]:** Set up initialize runtime

**Comment [MSOffice4]:** This is how to call the runtime – Runtime addr, IOCB, Symbolic Map

**Comment [MSOffice5]:** Set the cursor at this field.

**Comment [MSOffice6]:** Check for PFK3 being pressed.

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 05.27 01/08/10
000138	DC4E	C62B	C3E8	006BF	0047C	111 TR R23C01D(79),LOTBL	00000056
00013E	47F0	C03A	000CE			112 B IOLOOP	00000057
					113 *		00000058
					114 * SET UP IOCB FOR AN END		00000059
					115 *		00000060
				00142	116 EXIT EQU *		00000061
000142	D203	C4F4	C68C	00588	00720	117 MVC IOCBFUNC,=C'END '	00000062
					118 TCALL T3270ADR,IOCB,TPARM		00000063
000148					119+ CNOP 0,4		00000019
000148	4510	C0C0	00154		120+ BAL R1,TCAL0006	SET UP THE PARMS	00000020
00014C	00000588				121+ DC A(IOCB)		00000021
000150	80				122+ DC AL1(X'80')		00000022
000151	0005A8				123+ DC AL3(TPARM)		00000023
000154	58F0	C4F0	00584		124+TCAL0006 L R15,T3270ADR	CRT IO IS PRELOADED, PUT ADDR	00000024
000158	05EF				125+ BALR R14,R15	IN R15 AND CALL	00000025
					126 LEAVE ERETURN RC=0		00000064
00015A	58D0	D004	00004		127+LEAVE L 13,4(0,13)	RESET TO CALLERS SAVE AREA	00000004
00015E	98EC	D00C	0000C		128+ LM 14,12,12(13)	RESTORE THE REGISTERS	00650000
000162	41F0	0000	00000		129+ LA 15,0(0,0)	LOAD RETURN CODE	01750000
000166	07FE				130+ BR 14	RETURN	02000000
000168					131 CNVWRK DS F		00000065
000170					132 DWORD DS D		00000066
000178	000000				133 WORK3 DC XL3'00'		00000067
00017B					134 DS CL240		00000068
00026B	F0F1F2F3F4F5F6F7				135 TRTAB DC C'0123456789ABCDEF'		00000069
					136 *		00000070
00027C					137 MEMDISP DS 0H		00000071
00027C	4B4B4B4B4B4B4B4B				138 CHRTBL DC 8CL16'.....'		00000072
					139 * A B C D E F G H I		00000073
0002FC	4B81828384858687				140 DC XL16'4B8182838485868788894B4B4B4B4B' X'8X'		00000074
					141 * J K L M N O P Q R		00000075
00030C	4B91929394959697				142 DC XL16'4B9192939495969798994B4B4B4B4B' X'9X'		00000076
					143 * S T U V W X Y Z		00000077
00031C	4B4BA2A3A4A5A6A7				144 DC XL16'4B4BA2A3A4A5A6A7A8A94B4B4B4B4B' X'AX'		00000078
00032C	4B4B4B4B4B4B4B4B				145 DC CL16'.....' X'BX'		00000079
00033C	4BC1C2C3C4C5C6C7				146 DC CL16'.ABCDEFGHI.....' X'CX'		00000080
00034C	4BD1D2D3D4D5D6D7				147 DC CL16'.JKLMNOPQR.....' X'DX'		00000081
00035C	4B4BE2E3E4E5E6E7				148 DC CL16'..STUVWXYZ.....' X'EX'		00000082
00036C	F0F1F2F3F4F5F6F7				149 DC CL16'0123456789.....' X'FX'		00000083
00037C	F0F0F0F0F0F0F0F0				150 HITBL DC 16C'0'		00000084
00038C	F1F1F1F1F1F1F1F1				151 DC 16C'1'		00000085
00039C	F2F2F2F2F2F2F2F2				152 DC 16C'2'		00000086
0003AC	F3F3F3F3F3F3F3F3				153 DC 16C'3'		00000087
0003BC	F4F4F4F4F4F4F4F4				154 DC 16C'4'		00000088
0003CC	F5F5F5F5F5F5F5F5				155 DC 16C'5'		00000089
0003DC	F6F6F6F6F6F6F6F6				156 DC 16C'6'		00000090
0003EC	F7F7F7F7F7F7F7F7				157 DC 16C'7'		00000091
0003FC	F8F8F8F8F8F8F8F8				158 DC 16C'8'		00000092
00040C	F9F9F9F9F9F9F9F9				159 DC 16C'9'		00000093
00041C	C1C1C1C1C1C1C1C1				160 DC 16C'A'		00000094
00042C	C2C2C2C2C2C2C2C2				161 DC 16C'B'		00000095
00043C	C3C3C3C3C3C3C3C3				162 DC 16C'C'		00000096
00044C	C4C4C4C4C4C4C4C4				163 DC 16C'D'		00000097
00045C	C5C5C5C5C5C5C5C5				164 DC 16C'E'		00000098
00046C	C6C6C6C6C6C6C6C6				165 DC 16C'F'		00000099

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 05.27 01/08/10
-----	-------------	-------	-------	------	------------------	-------------------------

00047C	F0F1F2F3F4F5F6F7			166	LOTBL DC 16CL16'0123456789ABCDEF'	00000100
00057C	E3F3F2F7F0C9D640			167	T3270IO DC CL8'T3270IO'	00000101
000584	00000000			168	T3270ADR DC F'0'	00000102

000588				169	IOCB DS 0F	00000103
000588				170	IOCBFUNC DS CL4	00000104
00058C				171	IOCBRC DS AL2	00000105
00058E				172	IOCBLEN DS AL2	00000106
000590				173	IOCBADR DS A	00000107
000594				174	DS XL20	00000108
		00020		175	IOCBLN EQU *-IOCB	00000109
				176	*	00000110
				177	COPY DBG3270	00000111

				178	** GENERATED BY MAP3270 V2.0.0 ON 100108 AT 052704440	00000100
0005A8				179	TPARM DS 0F	00000200
0005A8	C4C2C7F3F2F7F040			180	TNAME DC CL8'DBG3270'	00000300
0005B0	00000000			181	TADDR DC A(0)	00000400
0005B4	0000			182	TRC DC H'0'	00000500
0005B6	00			183	TAID DC X'0'	00000600
0005B7	0000			184	TSBA DC XL2'0000'	00000700
0005B9	00			185	DC X'0'	00000800
0005BA	40			186	R12C46C DC C' '	00000900
0005BB	0002			187	R12C46L DC AL2(02)	00001000
0005BD	4B4B			188	R12C46D DC CL02'..'	00001100
0005BF	40			189	R12C49C DC C' '	00001200
0005C0	0005			190	R12C49L DC AL2(05)	00001300
0005C2	4B4B4B4B4B			191	R12C49D DC CL05'.....'	00001400
0005C7	40			192	R15C40C DC C' '	00001500
0005C8	0018			193	R15C40L DC AL2(24)	00001600
0005CA	4B4B4B4B4B4B4B4B			194	R15C40D DC CL24'.....'	00001700
0005E2	40			195	R16C40C DC C' '	00001800
0005E3	0018			196	R16C40L DC AL2(24)	00001900
0005E5	4B4B4B4B4B4B4B4B			197	R16C40D DC CL24'.....'	00002000
0005FD	40			198	R17C40C DC C' '	00002100
0005FE	0018			199	R17C40L DC AL2(24)	00002200
000600	4B4B4B4B4B4B4B4B			200	R17C40D DC CL24'.....'	00002300
000618	40			201	R21C01C DC C' '	00002400
000619	004F			202	R21C01L DC AL2(79)	00002500
00061B	4B4B4B4B4B4B4B4B			203	R21C01D DC CL79'.....'	*00002600
000623	4B4B4B4B4B4B4B4B				.....'	00002700
00066A	40			204	R22C01C DC C' '	00002800
00066B	004F			205	R22C01L DC AL2(79)	00002900
00066D	4B4B4B4B4B4B4B4B			206	R22C01D DC CL79'.....'	*00003000
000675	4B4B4B4B4B4B4B4B				.....'	00003100
0006BC	40			207	R23C01C DC C' '	00003200
0006BD	004F			208	R23C01L DC AL2(79)	00003300
0006BF	4B4B4B4B4B4B4B4B			209	R23C01D DC CL79'.....'	*00003400
0006C7	4B4B4B4B4B4B4B4B				.....'	00003500
00070E	40			210	DC C' '	00003600
00070F	0000			211	DC AL2(0)	00003700

				212	** GENERATED BY MAP3270 V2.0.0 ON 100108 AT 052704440	00003800
				213	*	00000112
				214	COPY AIDCODES	00000113
				215	*	00000001
				216	AID CODES FOR MAP3270	00000002
				217	*	00000003

**Comment [MSOffice7]:** This is the I/O control block fir MAP3279, Other than the IOCBFUNC, you should not change any thing else in this block.

**Comment [MSOffice8]:** This is how a symbolic map is copied into the ptoqram from SYSLIB

**Comment [MSOffice9]:** This brings the AIDCODES in from the SYSLIB dataset. These are the AID (attention identifier

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	ASM 0201 05.27 01/08/10
			0007D	218	AIDENTER EQU X'7D'	, 00000004
			0006D	219	AIDCLEAR EQU X'6D'	- 00000005
			000F0	220	AIDTSTRQ EQU X'F0'	0 00000006
			000F1	221	AIDPFK01 EQU X'F1'	1 00000007
			000F2	222	AIDPFK02 EQU X'F2'	2 00000008
			000F3	223	AIDPFK03 EQU X'F3'	3 00000009
			000F4	224	AIDPFK04 EQU X'F4'	4 00000010
			000F5	225	AIDPFK05 EQU X'F5'	5 00000011
			000F6	226	AIDPFK06 EQU X'F6'	6 00000012
			000F7	227	AIDPFK07 EQU X'F7'	7 00000013
			000F8	228	AIDPFK08 EQU X'F8'	8 00000014
			000F9	229	AIDPFK09 EQU X'F9'	9 00000015
			0007A	230	AIDPFK10 EQU X'7A'	: 00000016
			0007B	231	AIDPFK11 EQU X'7B'	# 00000017
			0007C	232	AIDPFK12 EQU X'7C'	@ 00000018
			000C1	233	AIDPFK13 EQU X'C1'	A 00000019
			000C2	234	AIDPFK14 EQU X'C2'	B 00000020
			000C3	235	AIDPFK15 EQU X'C3'	C 00000021
			000C4	236	AIDPFK16 EQU X'C4'	D 00000022
			000C5	237	AIDPFK17 EQU X'C5'	E 00000023
			000C6	238	AIDPFK18 EQU X'C6'	F 00000024
			000C7	239	AIDPFK19 EQU X'C7'	G 00000025
			000C8	240	AIDPFK20 EQU X'C8'	H 00000026
			000C9	241	AIDPFK21 EQU X'C9'	I 00000027
			0004A	242	AIDPFK22 EQU X'4A'	CENT SIGN 00000028
			0004B	243	AIDPFK23 EQU X'4B'	. 00000029
			0004C	244	AIDPFK24 EQU X'4C'	< 00000030
			0006C	245	AIDPA1 EQU X'6C'	% 00000031
			0006E	246	AIDPA2 EQU X'6E'	> 00000032
			0006B	247	AIDPA3 EQU X'6B'	, 00000033
			248	*****		00000034
000000			249	END	A3270	00000114
000718	E2E3D9E3		250		=C'STRT'	
00071C	C9D64040		251		=C'IO '	
000720	C5D5C440		252		=C'END '	
000724	C1E2E2C5D4C2D3C5		253		=C'ASSEMBLER CALLING'	

POS.ID	REL.ID	FLAGS	ADDRESS
0001	0001	0C	0000C0
0001	0001	08	0000C5
0001	0001	0C	0000E4
0001	0001	08	0000E9
0001	0001	0C	00014C
0001	0001	08	000151

ASM 0201 05.27 01/08/10

SYMBOL    LEN    VALUE    DEFN    REFERENCES    ASM 0201 05.27 01/08/10

AIDFFK03	00001	000000F3	00223	00098	
A3270	00001	00000000	00020	00249	
CHRTBL	00016	0000027C	00138	00109	
EXIT	00001	00000142	00116	00099	
HITBL	00001	0000037C	00150	00110	
IDS0001	00001	00000038	00029	00053	
ID10001	00004	00000000	00022	00029 00048	
ID20001	00008	00000005	00024	00023	
ID30001	00002	00000080	00031	00023	
ID40001	00001	00000080	00048	00022	
IOCB	00004	00000588	00169	00072 00073 00073 00078 00093 00121 00175	
IOCBADR	00004	00000590	00173	00105	
IOCBFUNC	00004	00000588	00170	00074 00087 00117	
IOCBLN	00001	00000020	00175	00073	
IOLOOP	00001	000000CE	00086	00112	
LOTBL	00016	0000047C	00166	00111	
R0	00001	00000000	00032	00067	
R1	00001	00000001	00033	00059 00060 00060 00077 00092 00120	
R12	00001	0000000C	00044	00056 00057	
R12C46C	00001	000005BA	00186	00088 00103	
R12C46D	00002	000005BD	00188	00102	
R14	00001	0000000E	00046	00082 00097 00125	
R15	00001	0000000F	00047	00081 00082 00096 00097 00124 00125	
R15C40D	00024	000005CA	00194	00089 00104	
R2	00001	00000002	00034	00105 00106 00107 00108	
R21C01D	00079	0000061B	00203	00106 00109	
R22C01D	00079	0000066D	00206	00107 00110	
R23C01D	00079	000006BF	00209	00108 00111	
SKIPLD	00001	000000AC	00068	00061	
TAID	00001	000005B6	00183	00098 00100	
TCAL0004	00004	000000C8	00081	00077	
TCAL0005	00004	000000EC	00096	00092	
TCAL0006	00004	00000154	00124	00120	
TPARM	00004	000005A8	00179	00080 00095 00123	
TRTAB	00016	0000026B	00135	00101	
T3270ADR	00004	00000584	00168	00059 00067 00081 00096 00124	
T3270IO	00008	0000057C	00167	00064	
WORK3	00003	00000178	00133	00100 00101 00102	



SYMBOL	LEN	VALUE	DEFN	REFERENCES
=C'STRT'	00004	00000718	00250	00074
=C'IO '	00004	0000071C	00251	00087
=C'END '	00004	00000720	00252	00117
=C'ASSEMBLER CALLING'				
	00017	00000724	00253	00089 00104

ASM 0201 05.27 01/08/10

ASM 0201 05.27 01/08/10

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

HIGHEST SEVERITY WAS 0

OPTIONS FOR THIS ASSEMBLY

ALIGN, ALOGIC, BUFSIZE(STD), NODECK, ESD, FLAG(0), LINECOUNT(55), LIST, NOMCALL, YFLAG, WORKSIZE(2097152)

NOMLOGIC, NONUMBER, OBJECT, NORENT, RLD, NOSTMT, NOLIBMAC, NOTERMINAL, NOTEST, XREF(SHORT)

SYSPARM()

WORK FILE BUFFER SIZE/NUMBER = 6654/ 1

TOTAL RECORDS READ FROM SYSTEM INPUT 114

TOTAL RECORDS READ FROM SYSTEM LIBRARY 938

TOTAL RECORDS PUNCHED 33

TOTAL RECORDS PRINTED 338