INIT.ASM - Accolade's SEGA initialization program Version: 03/12/91

2500 A.D. 68000 Macro Assembler - Version 5.00a

Input Filename : init.asm Output Filename : init.obj

	1 2 3			.LIST ON .NAM INIT.ASM - Accolade's SEGA initialization program .SUBTIL Version: 03/12/91					
	5			。 海海水油油水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水					
	6 7 8 9				.PW .PL .LINKLI .OPTION				
	11 12			. ******	*****	the size site size size size size size size size siz	**************************************		
	13 14		0000 0001	ACCODEV	EQU	1 .	;Accolade development system in use		
	15 16		0000 0000	Stack	EQU	\$00000000	;At the top of RAM, change if you like		
	17 18 19 20 21 22 23 24		00A0 0000 00A1 1100 00A1 1200 00C0 0000 00C0 0004	Z80_Add Z80_Bus Z80_Res	EQU	\$00A00000 \$00A11100 \$00A11200	;Z80 data ;Z80 buss request ;Z80 reset line		
					EQU	\$00C00000 \$00C00004	;Video chip data register ;Video chip command register		
	25			2		**************** vector table for	k*************************************		
	27 28			, 11151	CODE	400001 taxec 101	***************************************		
	29 30	00000000			ORG	\$000000			
	31 32		0000 0000 0000 0000		DC.I	Stack,StartUp,	Colde+ Colde+		
		00000000	0000 0000 0000 0200 0000 0294 0000 0294						
	33	00000010	0000 0294 0000 0294 0000 0294 0000 0294		DC.1	ColdSt,ColdSt,			
	34	00000020	0000 0294 0000 0294 0000 0294 0000 0294		DC.I	ColdSt,ColdSt,			
	35	00000030	0000 0294 0000 0294 0000 0294 0000 0294		DC.L	ColdSt,ColdSt,	ColdSt,ColdSt		
	36	00000040	0000 0294 0000 0294 0000 0294 0000 0294		DC.l	ColdSt,ColdSt,	ColdSt,ColdSt		
	37	00000050	0000 0294 0000 0294 0000 0294 0000 0294		DC.1	ColdSt,ColdSt,	ColdSt,ColdSt		
	38	00000060	0000 0294 0000 0294 0000 0294 0000 0294		DC.1	ColdSt,ColdSt,	ColdSt,ColdSt		
	39	00000070	0000 034E 0000 0294 0000 0350 0000 0294		DC.l	ScanVec,ColdSt	,VBLVec,ColdSt		
	40	00000080	0000 0294 0000 0294 0000 0294 0000 0294		DC.1	ColdSt,ColdSt,	ColdSt,ColdSt		
	41	00000090	0000 0294 0000 0294		DC.1	ColdSt,ColdSt,	Coldst,Coldst		
	42	0A000000	0000 0294 0000 0294 0000 0294 0000 0294		DC.l	ColdSt,ColdSt,	ColdSt,ColdSt		
	43	000000080	0000 0294 0000 0294 0000 0294 0000 0294		DC.1	ColdSt,ColdSt,	ColdSt,ColdSt		
	44	000000000	0000 0294 0000 0294 0000 0294 0000 0294		DC.l	ColdSt,ColdSt,	Coldst,Coldst		
	45	00000000	0000 0294 0000 0294 0000 0294 0000 0294		DC.i	ColdSt,ColdSt,	Coldst,Coldst		
	46	000000E0	0000 0294 0000 0294 0000 0294 0000 0294		DC.l	ColdSt,ColcSt,	ColdSt,ColdSt		
	47	000000F0	0000 0294 0000 0294 0000 0294 0000 0294 0000 0294 0000 0294		DC.l	ColdSt,ColdSt,	ColdSt,ColdSt		

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48								
49 50			·安安安安安安安安安安安安安安安 #	****	*****	************		
51	00000100	53 45 47 41 20 47 45 4E 45 53 49 53 20 20 20 20	DC.b	'SEGA GENESIS	1	;\$100-\$10F		
52	00000110	28 43 29 41 43 40 44 20 31 39 39 31	DC.b	'(C)ACLD 1991.MA	R*	;\$110-\$11F		
53	00000120	2E 4D 41 52 20 20 20 20 20 20 20 20 20 20 20 20	DC.b	7	r	;\$120-\$12F		
54	00000130	20 20 20 20 20 20 20 20 20 20 20 20 20 2	DC.b	i	1	;\$130-\$13F		
55			DC.b			;\$140-\$14F		
56			DC.b	'Game title here		;\$150-\$15F ;FILE IN TITLE		
57	00000160	65 72 65 20 20 20 20 20 20 20 20 20 20 20 20 20	DC.b	,	*	;\$160-\$16F		
58	00000170	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	DC.b	7	ī	;\$170-\$17F		
59	00000180	20 20 20 20 47 4D 20 41 43 40 44 3F 3F 3F 20 20 30 30	DC.b	'GM ACLD??? -00'		;\$180-\$18D ;FILL IN 3 LETTER CODE		
60 61 62	00000185	FFFF	DC.W	SFFFF		;FILL IN the additive checksum of ROM ;from \$200 to ROM end		
63 64	00000190	4A 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	DC.b	/ J	1	;\$190-\$19F		
65 66 67 68	000001A0 000001A8	0000 0000 0007 FFFF 00FF 0000 00FF FFFF	DC.L	\$0000000,\$0007F \$00FF0000,\$00FFF		;Start/end of ROM, FILL IN END ;Start/end of RAM		
69	000001B0	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	DC.b	1	,1	;\$1BO-\$1BF		
70	00000100	20 20 20 20 20 20 20 20 20 20 20 20	DC.b	ľ	/	;\$1CO-\$1CF		
71	00000100	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	DC.b	f	j	;\$1DO-\$1DF		
72	000001E0	20 20 20 20 20 20 20 20 20 20 20 20 20 2	DC.b	f	i	;\$1EO-\$1EF .		
73	000 001F0	55 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	0C.b	′U		;\$1FO-\$1FF		
74 75	75 76 77 00000200 78 00000200 79 00000206	000200 000200 4A79 00A1 0008 000206 6600 0124	. **********	*********	******	**************************************		
76 77			Chantlin		• 40			
78			StartUp tst	\$A10008	;Check	DDR's for warm/cold start		
79 80			bne tst	WarmSt \$A1000A				
81 82	00000210	6600 011A	bne	WarmSt				
83 84		[01]	.IFZ	ACCODEV				
85 86 87 88 89			tst bne	\$A1000C WarmSt	;system ;DDR's	use this with the Accolade development a enabled. This means that all of the must be set to \$40 for production code, ust the first two.		
90 91		[00]	.ENDIF					

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92 93	00000214	607E			ColdSt		***		
94		。如此我我就有我们的,我们是我们的,我们的,我们的,我们的的,我们的的,我们的的,我们的的,我							
95 96	00000216	53 65 67 61 20 61 6E 64 20 47 65 6E 65 73 69 73 20 61 72 65 20 72 65 67 69 73 74 65 72 65 64 20 74 72 61 64 65 60 61 72 68 73		dc.b	'Sega and Genesis	s are registered trademarks /			
97	00000241	6F 66 20 53 65 67 61 20 45 6E 74 65		dc.b	'of Sega Enterprises Ltd.'				
98	00000259	72 70 72 69 73 65 73 20 4C 74 64 2E 41 63 63 6F 6C 61 64 65 20 49 6E 63 2E 20 69 73 20 6E 6F 74 20 61 73 73 6F 63 69 61 74 65 64 20 77 69 74 68 20 53 65 67 61 20 45 6E 74 65 72 70 72 69 73 65 73 20 4C 74 64 2E		dc.b	'Accolade Inc. is	s not associated with Sega Ente	rprises Ltd.'		
99									
100			.EVEN ON						
101			*****	*******	******	*********	****		
102			ē.						
103	^								
104 105 106	00000294 00000294 0000029A	1039 00A1 0001 0240 000F	ColdSt	and		;Check for SEGA write ;Don't write if zero			
107 108 109 110 111 112 113 114 115 116	0000029E 000002A0 000002A8 000002B0 000002B4 000002C0 000002C4 000002C8 000002C8 000002C0	6710 33FC 5345 00A1 4000 33FC 4741 00A1 4000 302E 0004 40F9 00C0 0000 41F9 0000 0000 303C 0017 3D58 0004 51C8 FFFA 2D7C 4000 0080 0094 3CBC 0000	?1	beq.s move move lea move move dbra move.l move	#'SE',\$A14000 #'GA',\$A14000 4(A6),D0 VidDat,A6 VidTbl,A0 #23,D0 (A0)+,4(A6) D0,?2 #\$40000080,4(A6)	;Write SEGA ASCII ;Read VidCom ;Init common address register ;Now init vid chip ;24 values to write ;now finish fill command at ta ;fill zeros	able end		
121 122 123 124	000002D8 000002DC 000002E0 000002E2 000002E4 000002E6	2078 01A8 2278 01AC 7000 20C0 80C9 6DFA	?3	move.l moveq move.l cmpa blt	\$1A8,A0 \$1AC,A1 #0,D0 D0,(A0)+ A1,A0 ?3	;Now clear system RAM ;using table entries			
127 128 129	000002E8 000002F0 000002F4 000002F6	207C 4000 0010 0004	?4	move.l move move dbra	#\$4000010,4(A6) #\$27,D1 D0,(A6) D1,?4	;Clear V Scroll table to 0 ;Clear 40 entries			
137	000 0004 00003	00 0000 0004 5080 5109 FFFC	?5	move.l moveq move dbra	#\$C0000000,4(A6) #\$3F,D1 D0,(A6) D1,?5	;Clear palette to 0 ;Do 64 colors			
137 138 139 140 141	0000030A 0000030E 00000314 00000320 00000320	6100 0046 1D7C 009F 0011 1D7C 00BF 0011 1D7C 00DF 0011 1D7C 00FF 0011 3D7C 8A00 0004	line=0:	move.b	InitZ80 #\$9F,\$11(A6) #\$BF,\$11(A6) #\$FF,\$11(A6) #\$FF,\$11(A6)	;Init the Z80 to a known state ;Set audio attenuation to max ;Turn off scan line interrupt			
143 144	0000032c 0000032c 00000332 00000338	4DF9 00C0 0000 1039 00A1 0001 0240 000F	WarmSt	lea move.b and	VidDat,A6 \$A10001,D0 #\$000F,D0	;Init common address register ;Check for SEGA write ;Don't write if zero			

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Version: 03/12/91 146 00000330 6710 bea.s 33FC 5345 00A1 4000 147 0000033E move #'SE',\$A14000 :Write SEGA ASCII 148 00000346 33FC 4741 00A1 4000 #'GA',\$A14000 move 149 0000034E 150 ; Init Joy pad DDR's 151 ; Init Vid chip to your specs 152 ; Init Z-80 to your specs/routine 153 ;Turn on interrupts 154 155 156 157 ; Use your routines and/or labels for these 158 159 00000345 160 0000034E 4E73 161 162 163 ; Use your routines and/or labels for these 164 165 00000350 **VBLVec** 00000350 166 4E73 rte 167 168 169 ; Initialize the Z-80 to a known state 170 171 USES: DO/AO : RETURNS: Nothing 172 173 33FC 0000 00A1 1200 #\$0000,Z80_Res 174 00000352 InitZ80 move ;Reset the Z-80 175 0000035A 0000 D0,00 mulu ;delay request the buss 176 0000035C 33FC 0100 00A1 1100 #\$0100,280 Bus move 177 D0,00 ;delay 00000364 0000 muli 11 33FC 0100 00A1 1200 #\$0100,Z80 Res ;Start 'er up 178 00000366 move 179 0000036E 00,00 0000 mulu ;delay 180 00000370 33FC 0100 00A1 1100 #\$0100, Z80 Bus ;request the buss move 00000378 181 0000 mulu D0,D0 ;delay 182 0000037A 0839 0000 00A1 1100 btst #\$00,280 Bus ; wait till granted 66F6 183 00000382 bne 41F9 00A0 0000 184 00000384 lea Z80_Addr,A0 #\$F3,(A0) 185 0000038A 10BC 00E3 move.b ;DI 0000038E 117C 00ED 0001 move.b #\$ED,1(A0) : IM 1 186 move.b #\$56,2(A0) move.b #\$18,3(A0) 187 00000394 1170 0056 0002 117C 0018 0003 ; JR -2 188 0000039A 189 000003A0 117C 00FE 0004 move.b #\$FE,4(A0) 190 000003A6 33FC 0000 00A1 1200 move #\$0000,Z80 Res :Reset the Z-80 191 .000003AE 0000 D0,00 ;delay mulu 33FC 0000 00A1 1100 #\$0000, Z80_Bus 192 000003B0 move ; give back the buss 193 000003B8 0300 mulu 00,00 ; delay ;Start 'er up 194 000003BA 33FC 0100 00A1 1200 #\$0100, Z80_Res move 195 * 000003C2 COCO mulu D0,00 ;delay 196 000003C4 33FC 0000 00A1 1100 #\$0000, Z80_Bus move 197 000003CC rts 198 199 200 201 .DATA 202 \$8004,\$8114,\$8200,\$8300,\$8400,\$8500,\$8600,\$8700 0 8300 VidTbl DC.w DC.W \$8800,\$8900,\$8AFF,\$8B00,\$8C81,\$8D00,\$8E00,\$8F01 E00 8E01 9200 93FF \$9001,\$9100,\$9200,\$93FF,\$94FF,\$9500,\$9600,\$9780