1:

lab4.map

1

```
2: PROGRAM "lab4.abs"
                                                                           65:
                                                                              **************************
67: OBJECT-ALLOCATION SECTION
5: TARGET SECTION
                                                                           68:
                                                                               Name Module
                                                                                                                Addr hSize dSize Ref Secti
                                                                           69: -----
6: -----
                                                                           70: MODULE:
                                                                                                 -- s12dp256vecs.o12 --
7: Processor : Freescale HC12
                                                                           71: - PROCEDURES:
8: Memory Model: SMALL
                                                                           72:
9: File Format : ELF\DWARF 2.0
                                                                                  exit
                                                                                                                   DDCO
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        55 s12dp2
10: Linker : SmartLinker V-5.0.36 Build 9056, Feb 26 2009
                                                                           73:
                                                                                 1000
                                                                                                                   DDC2
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Ω
                                                                                                                                           s12dp2
                                                                          74: - VARIABLES:
11:
75:
                                                                                                                   FF8C
                                                                                                                                  2
                                                                                                                                        Λ
                                                                                 __vec8C
                                                                                                                            2
                                                                                                                                            text
                                                                                 __vec8E
13: FILE SECTION
                                                                           76:
                                                                                                                   FF8E
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Λ
                                                                                                                                            .text
14: -----
                                                                           77:
                                                                                 __vec90
                                                                                                                   FF90
                                                                                                                                        Λ
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                            .text
                                                                           78:
15: s12dp256vecs.o12
                                  Model: SMALL,
                                                    Lang: Assembler
                                                                                 __vec92
                                                                                                                   FF92
                                                                                                                            2
                                                                                                                                        Ω
                                                                                                                                            text
                                                                           79:
                                                                                 __vec94
16: os cpu a.o12
                                  Model: SMALL,
                                                    Lang: Assembler
                                                                                                                   FF94
                                                                                                                                        Λ
                                                                                                                                            .text
                                                                                 __vec96
17: main.o12
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                           80:
                                                                                                                   FF96
                                                                                                                            2
                                                                                                                                        Λ
                                                                                                                                            .text
                                                                           81:
18: ucos ii.o12
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                                 __vec98
                                                                                                                   FF98
                                                                                                                            2
                                                                                                                                        Λ
                                                                                                                                            .text
19: 9S12DP256Start.o12
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                           82:
                                                                                 __vec9A
                                                                                                                   FF9A
                                                                                                                                        Ω
                                                                                                                                            text
20: LCD.o12
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                           83:
                                                                                                                   FF9C
                                                                                                                                        Λ
                                                                                 vec9C
                                                                                                                                            .text
21: UcosKey.o12
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                           84:
                                                                                                                   FF9E
                                                                                                                                        Ω
                                                                                 __vec9E
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                           85:
                                                                                  __vecA0
                                                                                                                   FFA0
22: Clock.o12
                                                                                                                                            text
23: rtshc12.c.o (ANSIS.LIB)
                                  Model: SMALL,
                                                    Lang: ANSI-C
                                                                           86:
                                                                                  __vecA2
                                                                                                                   FFA2
                                                                                                                                            .text
                                                                           87:
                                                                                  __vecA4
                                                                                                                   FFA4
                                                                                                                                            text
__vecA6
                                                                           88:
                                                                                                                   FFA6
                                                                                                                                            .text
26: STARTUP SECTION
                                                                                  __vecA8
                                                                                                                   FFAR
                                                                                                                                            .text
                                                                                  __vecAA
                                                                                                                   FFAA
                                                                                                                                            .text
                                                                                  __vecAC
28: Entry point: 0xC000 (_Startup)
                                                                           91:
                                                                                                                   FFAC
                                                                                                                                            text
29: startupData is allocated at 0xC05D and uses 11 Bytes
                                                                           92:
                                                                                  __vecAE
                                                                                                                   FFAE
                                                                                                                                            .text
30: extern struct _tagStartup {
                                                                           93:
                                                                                  __vecB0
                                                                                                                   FFB0
                                                                                                                                        Λ
                                                                                                                                            text
                                                                           94:
                                                                                                                   FFB2
31: unsigned flags
                                                                                  __vecB2
                                                                                                                                        Λ
                  Ω
                                                                                                                            2
                                                                                                                                            text
                       0xC06C
                                                                           95:
                                                                                                                   FFB4
32:
    PFunc main
                               (main)
                                                                                  __vecB4
                                                                                                                                        0
                                                                                                                                            .text
33:
    long
           stackOffset
                       0x3FFF
                                                                           96:
                                                                                                                   FFR6
                                                                                                                            2
                                                                                                                                        Λ
                                                                                  vecB6
                                                                                                                                            text
                       1
                                                                           97:
                                                                                                                   FFR8
34:
    unsigned nofZeroOut
                                                                                  vecB8
                                                                                                                            2
                                                                                                                                        Ω
                                                                                                                                            text
                       0x1000
                                1755
                                                                           98:
                                                                                                                   FFRA
35:
    _Range pZeroOut
                                                                                                                            2
                                                                                                                                        Λ
                                                                                  vecBA
                                                                                                                                            text
    _Copy *toCopyDownBeg 0xDEFB
                                                                           99:
36:
                                                                                  __vecBC
                                                                                                                   FFBC
                                                                                                                            2
                                                                                                                                        Λ
                                                                                                                                            .text
37: } _startupData;
                                                                          100:
                                                                                                                   FFRE
                                                                                  __vecBE
                                                                                                                            2
                                                                                                                                        Ω
                                                                                                                                            text
                                                                          101:
38:
                                                                                                                   FFC0
                                                                                                                                        Λ
                                                                                  vecC0
                                                                                                                            2
                                                                                                                                            .text
102:
                                                                                  vecC2
                                                                                                                   FFC2
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Λ
                                                                                                                                            .text
40: SECTION-ALLOCATION SECTION
                                                                          103:
                                                                                  __vecC4
                                                                                                                   FFC4
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Ω
                                                                                                                                            .text
41: Section Name
                           Size Type
                                        From
                                                 To
                                                        Segment
                                                                          104:
                                                                                  __vecC6
                                                                                                                   FFC6
                                                                                                                            2
                                                                                                                                        0
                                                                                                                                            .text
                                                                          105:
42: -----
                                                                                  vecC8
                                                                                                                   FFC8
                                                                                                                            2
                                                                                                                                  2.
                                                                                                                                        0
                                                                                                                                            .text
43: .text
                            7161
                                 R
                                        0xC06C
                                                 0xDC64
                                                        ROM_C000
                                                                          106:
                                                                                  __vecCA
                                                                                                                   FFCA
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Ω
                                                                                                                                            .text
                                                                          107:
44: s12dp256vecs__ORG00001
                            116
                                  R
                                        0xFF8C
                                                 0xFFFF
                                                        .absSeq0
                                                                                  vecCC
                                                                                                                   FFCC
                                                                                                                            2
                                                                                                                                  2.
                                                                                                                                        0
                                                                                                                                            .text
                             72
45: .bss
                                 R/W
                                        0x1000
                                                 0x1047
                                                        RAM
                                                                          108:
                                                                                  __vecCE
                                                                                                                   FFCE
                                                                                                                                            .text
46: .rodata
                             272
                                  R
                                        0xDC65
                                                 0 \times DD74
                                                        ROM C000
                                                                          109:
                                                                                                                   OCER
                                                                                                                            2
                                                                                                                                  2
                                                                                  vecD0
                                                                                                                                        Ω
                                                                                                                                            .text
                             75
47: .rodata1
                                   R
                                        0xDD75
                                                 0xDDBF
                                                        ROM C000
                                                                          110:
                                                                                  vecD2
                                                                                                                   FFD2
                                                                                                                                        0
                                                                                                                                            .text
48: .startData
                             15
                                   R
                                        0xC05D
                                                 0xC06B
                                                        ROM C000
                                                                          111:
                                                                                  __vecD4
                                                                                                                   FFD4
                                                                                                                                            .text
49: .init
                             93
                                   R
                                        0xC000
                                                 0xC05C
                                                        ROM C000
                                                                          112:
                                                                                  __vecD6
                                                                                                                   FFD6
                                                                                                                                            .text
50: s12dp256vecs. SEC000000
                             4
                                  R
                                        0xDDC0
                                                 0xDDC3
                                                        ROM C000
                                                                          113:
                                                                                  vecD8
                                                                                                                   FFD8
                                                                                                                                            .text
                             53
                                   R
                                                                          114:
                                                                                  __vecDA
51: os cpu a. SEC000000
                                        0 \times DDC4
                                                 0xDDF8
                                                        ROM C000
                                                                                                                   FFDA
                                                                                                                                            .text
52: .common
                            1683
                                 R/W
                                        0x1048
                                                 0 \times 16 DA
                                                        RAM
                                                                          115:
                                                                                  __vecDC
                                                                                                                   FFDC
                                                                                                                                            text
53: RUNTIME
                             258
                                  R
                                        0xDDF9
                                                        ROM C000
                                                                          116:
                                                                                  __vecDE
                                                 0xDEFA
                                                                                                                   FFDE
                                                                                                                                            .text
                                                                                  __vecE0
                                                                          117:
54: .stack
                              1
                                 R/W
                                        0x3FFF
                                                 0x3FFF
                                                        .stackSeq
                                                                                                                   FFE0
                                                                                                                                        0
                                                                                                                                            .text
                                                                          118:
                                                                                  __vecE2
55: .copy
                                  R
                                        OXDEFB
                                                 0xDEFC
                                                        ROM C000
                                                                                                                   FFE2
                                                                                                                                            .text
56:
                                                                          119:
                                                                                  __vecE4
                                                                                                                   FFE4
                                                                                                                                        0
                                                                                                                                            .text
57: Summary of section sizes per section type:
                                                                          120:
                                                                                  __vecE6
                                                                                                                   FFE6
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Λ
                                                                                                                                            .text
                                                                          121:
                                                                                  __vecE8
58: READ_ONLY (R): 1F71 (dec: 8049)
                                                                                                                   8333
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Ω
                                                                                                                                            .text
59: READ WRITE (R/W): 6DC (dec:
                               1756)
                                                                          122:
                                                                                  __vecEA
                                                                                                                   FFEA
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        0
                                                                                                                                            .t.ext.
                                                                          123:
                                                                                  __vecEC
                                                                                                                   FFEC
                                                                                                                                        0
60:
                                                                                                                            2
                                                                                                                                  2.
                                                                                                                                            .text
__vecEE
                                                                          124:
                                                                                                                   FFEE
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        0
                                                                                                                                            text
62: VECTOR-ALLOCATION SECTION
                                                                          125:
                                                                                  __vecF0
                                                                                                                   FFF0
                                                                                                                                        0
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                            .text
     Address InitValue InitFunction
                                                                          126:
                                                                                  __vecF2
                                                                                                                   CHHH
                                                                                                                            2
                                                                                                                                  2
                                                                                                                                        Λ
                                                                                                                                           .t.ext
```

02/27/13 09:54:00

127:	vecF4		FFF4	2	2	0	.text	190:	OS_FlagInit	CE48	42	66	1	.text
128:	vecF6		FFF6	2	2	0	.text	191:	OS_FlagUnlink	CE8A	30	48	1	.text
129:			FFF8	2	2	0		192:	OS_MemInit	CEBA	44	68	1	
	vecF8						.text							.text
130:	vecFA		FFFA	2	2	0	.text	193:	OSMutexPend	CEFE	18B	395	4	.text
131:	vecFC		FFFC	2	2	0	.text	194:	OSMutexPost	D089	A4	164	2	.text
132:	vecFE		FFFE	2	2	0	.text	195:	OSMutex_RdyAtPrio	D12D	64	100	1	.text
133: MC	DDULE:	os_cpu_a.o12						196:	OSSemCreate	D191	40	64	4	.text
134: -	PROCEDURES:							197:	OSSemPend	D1D1	89	137	4	.text
135:	OSStartHighRdy		DDC4	C	12	1	os_cpu	198:	OSSemPost	D25A	47	71	4	.text
136:	OSCtxSw		DDD0	17	23	1	os_cpu	199:	OSTaskCreate	D2A1	7E	126	8	.text
				12	18			200:			11A	282		
137:	OSIntCtxSw		DDE7	12	18	1	os_cpu		OSTaskDel	D31F			2	.text
	VARIABLES:							201:	OSTaskNameSet	D439	6C	108	3	.text
139: MC	DDULE:	main.o12						202:	OSTaskResume	D4A5	77	119	1	.text
140: -	PROCEDURES:							203:	OSTaskSuspend	D51C	7A	122	1	.text
141:	main		C06C	26	38	0	.text	204:	OSTimeDly	D596	3C	60	4	.text
142:	StartTask		C092	45	69	1	.text	205:	OSTmrCreate	D5D2	83	131	1	.text
143:	UITask		COD7	27	39	1	.text	206:	OSTmrStart	D655	5D	93	1	.text
144:	TimeDispTask		C0FE	28	40	1	.text	207:	OSTmrSignal	D6B2	7	7	1	.text
	=			6D7	1751			207:	=		24	36	1	
145:	SetTheTime		C126	6D7	1/51	22	.text		OSTmr_Alloc	D6B9				.text
	VARIABLES:							209:	OSTmr_Init	D6DD	9D	157	1	.text
147:	StartTaskStk		1048	40	64	1	.commo	210:	OSTmr_InitTask	D77A	23	35	1	.text
148:	UITaskStk		1088	40	64	1	.commo	211:	OSTmr_Link	D79D	82	130	2	.text
149:	TimeDispTaskStk		10C8	40	64	1	.commo	212:	OSTmr_Unlink	D81F	47	71	2	.text
150: MC	-	ucos_ii.o12						213:	OSTmr_Lock	D866	12	18	3	.text
	PROCEDURES:	4005_11.012						214:	OSTmr Unlock	D878	6	6	7	.text
152:	OSCPUSaveSR		C7FD	5	5	24	.text	215:	OSTmr_Task	D87E	86	134	2	.text
								1		D8 / E	86	134	۷	.text
153:	OSCPURestoreSR		C802	3	3	46	.text		- VARIABLES:					_
154:	OSInitHookBegin		C805	6	6	1	.text	217:	OSUnMapTbl	DC65	100	256	2	.rodat
155:	OSInitHookEnd		C80B	1	1	1	.text	218:	STRING.uC.OS.II.Idle.1	DD75	E	14	1	.rodat
156:	OSTaskCreateHook		C80C	1	1	1	.text	219:	STRING.uC.OS.II.Stat.2	DD83	E	14	1	.rodat
157:	OSTaskDelHook		C80D	1	1	1	.text	220:	STRING.OS.TmrLock.3	DD91	В	11	1	.rodat
158:	OSTaskIdleHook		C80E	1	1	1	.text	221:	STRING.OS.TmrSig.4	DD9C	A	10	1	.rodat
159:	OSTaskStatHook		C80F	1	1	1	.text	222:	STRING.uC.OS.II.Tmr.5	DDA6	D	13	1	.rodat
160:			C810	22	34	1		223:		1000	2	2	4	
	OSTaskStkInit						.text		OSTmrCtr		_		_	.bss
161:	OSTaskSwHook		C832	1	1	3	.text	224:	OSCtxSwCtr	1108	4	4	10	.commo
162:	OSTCBInitHook		C833	1	1	1	.text	225:	OSEventFreeList	110C	2	2	3	.commo
163:	OSTimeTickHook		C834	15	21	1	.text	226:	OSEventTbl	110E	F0	240	4	.commo
164:	OSTickInit		C849	12	18	1	.text	227:	OSFlagTbl	11FE	64	100	4	.commo
165:	OSTickISR		C85B	22	34	1	.text	228:	OSFlagFreeList	1262	2	2	1	.commo
166:	OSEventNameSet		C87D	55	85	2	.text	229:	OSCPUUsage	1264	1	1	3	.commo
167:	OSInit		C8D2	21	33	1	.text	230:	OSIdleCtrMax	1265	4	4	6	.commo
168:	OSIntExit		C8F3	5C	92	1	.text	231:	OSIdleCtrRun	1269	4	4	4	.commo
169:	OSStart		C94F	23	35	1		232:		126D	1	1	2	
							.text		OSStatRdy			_		.commo
170:	OSTimeTick		C972	92	146	1	.text	233:	OSTaskStatStk	126E	80	128	1	.commo
171:	OS_Dummy		CA04	1	1	1	.text	234:	OSIntNesting	12EE	1	1	18	.commo
172:	OS_EventTaskRdy		CA05	87	135	2	.text	235:	OSLockNesting	12EF	1	1	9	.commo
173:	OS_EventTaskWait		CA8C	43	67	2	.text	236:	OSPrioCur	12F0	1	1	6	.commo
174:	OS EventTOAbort		CACF	3D	61	2	.text	237:	OSPrioHighRdy	12F1	1	1	8	.commo
175:	OS_EventWaitListI	nit	CB0C	F	1.5	1	.text	238:	OSRdyGrp	12F2	1	1	26	.commo
176:	OS InitEventList		CB1B	42	66	1	.text	239:	OSRdyTbl	12F3	2	2	16	.commo
177:	OS InitMisc		CB5D	30	48	1	.text	240:	OSRunning	12F5	1	1	8	.commo
									5					
178:	OS_InitRdyList		CB8D	1D	29	1	.text	241:	OSTaskCtr	12F6	1	1	3	.commo
179:	OS_InitTaskIdle		CBAA	23	35	1	.text	242:	OSIdleCtr	12F7	4	4	14	.commo
180:	OS_InitTaskStat		CBCD	23	35	1	.text	243:	OSTaskIdleStk	12FB	40	64	1	.commo
181:	OS_InitTCBList		CBF0	4A	74	1	.text	244:	OSTCBCur	133B	2	2	28	.commo
182:	OS_MemClr		CC3A	D	13	7	.text	245:	OSTCBFreeList	133D	2	2	5	.commo
183:	OS Sched		CC47	4D	77	10	.text	246:	OSTCBHighRdy	133F	2	2	7	.commo
184:	OS_SchedNew		CC47	16	22	3	.text	247:	OSTCBList	1341	2	2	6	.commo
											20		-	
185:	OS_StrCopy		CCAA	18	24	3	.text	248:	OSTCBPrioTbl	1343		32	18	.commo
186:	OS_StrLen		CCC2	C	12	3	.text	249:	OSTCBTbl	1363	1EF	495	4	.commo
187:	OS_TaskIdle		CCCE	1C	28	1	.text	250:	OSTickStepState	1552	1	1	3	.commo
188:	OS_TaskStat		CCEA	92	146	1	.text	251:	OSMemFreeList	1553	2	2	1	.commo
189:	OS_TCBInit		CD7C	CC	204	1	.text	252:	OSMemTbl	1555	40	64	4	.commo
	_							I						

253:	OSTime	1595	5 4	4	6	.commo	316: - VARIABLES:
254:	OSTmrFree	1599	9 2	2	3	.commo	317:
255:	OSTmrUsed	159B	3 2	2	3	.commo	318: ************************************
256:	OSTmrTime	159D	9 4	4	13	.commo	319: MODULE STATISTIC
257:	OSTmrSem	15A1	L 2	2	4	.commo	320: Name Data Code Const
258:	OSTmrSemSignal	15A3	3 2	2	4	.commo	321:
259:	OSTmrTbl	15A5	5 4E	78	4	.commo	322: s12dp256vecs.o12 0 4 116
260:	OSTmrFreeList	15F3		2	3	.commo	323: os_cpu_a.o12 0 53 0
261:	OSTmrTaskStk	15F5	80	128	1	.commo	324: main.ol2 192 1937 0
262:	OSTmrWheelTbl	1675	5 20	32	4	.commo	325: ucos_ii.ol2 1423 4359 318
263: M	ODULE:	9S12DP256Start.o12					326: 9S12DP256Start.o12 0 93 0
	PROCEDURES:						327: LCD.o12 0 321 0
265:	_Startup	C000) 11	17	1	.init	328: Ucoskey.o12 67 241 16
266:	Init	C011		76	1	.init	329: Clock.o12 73 303 13
	· VARIABLES:	6011	10	, 0	-	. 11110	330: rtshc12.c.o (ANSIS.LIB) 0 258 0
268:		C05D) В	11	6	.start	331: other 1 15 2
	_startupData MODULE:	LCD.o12	, ,	11	0	.Start	332:
	PROCEDURES:	LCD.012					333: **********************************
		5004	. 14	2.0	1.0		
271:	LcdWrCmd	D904		20	10	.text	334: SECTION USE IN OBJECT-ALLOCATION SECTION
272:	LcdInit	D918		79	1	.text	335:
273:	LcdDispChar	D967		14	52	.text	336: SECTION: ".text"
274:	LcdClrDisp	D975		9	1	.text	337: main StartTask UITask TimeDispTask SetTheTime OSCPUSaveSR OSCPURestoreSR
275:	LcdMoveCursor	D97E		21	10	.text	338: OSInitHookBegin OSInitHookEnd OSTaskCreateHook OSTaskDelHook OSTaskIdleHook
276:	LcdDispTime	D993		112	2	.text	339: OSTaskStatHook OSTaskStkInit OSTaskSwHook OSTCBInitHook OSTimeTickHook
277:	LcdCursor	DA03		28	2	.text	340: OSTickInit OSTickISR OSEventNameSet OSInit OSIntExit OSStart OSTimeTick
278:	LcdDly500ns	DA1F	7 5	5	3	.text	341: OS_Dummy OS_EventTaskRdy OS_EventTaskWait OS_EventTOAbort
279:	LcdDly40us	DA24	1 A	10	3	.text	342: OS_EventWaitListInit OS_InitEventList OS_InitMisc OS_InitRdyList
280:	LcdDlyms	DA2E	12	18	9	.text	343: OS_InitTaskIdle OS_InitTaskStat OS_InitTCBList OS_MemClr OS_Sched OS_SchedNew
281:	LcdBSpace	DA40) 5	5	1	.text	344: OS_StrCopy OS_StrLen OS_TaskIdle OS_TaskStat OS_TCBInit OS_FlagInit
282: -	VARIABLES:						345: OS_FlagUnlink OS_MemInit OSMutexPend OSMutexPost OSMutex_RdyAtPrio
283: M	ODULE:	UcosKey.o12					346: OSSemCreate OSSemPend OSSemPost OSTaskCreate OSTaskDel OSTaskNameSet
284: -	PROCEDURES:						347: OSTaskResume OSTaskSuspend OSTimeDly OSTmrCreate OSTmrStart OSTmrSignal
285:	KeyPend	DA45	5 14	20	8	.text	348: OSTmr_Alloc OSTmr_Init OSTmr_InitTask OSTmr_Link OSTmr_Unlink OSTmr_Lock
286:	KeyInit	DA59) 1E	30	1	.text	349: OSTmr_Unlock OSTmr_Task LcdWrCmd LcdInit LcdDispChar LcdClrDisp LcdMoveCursor
287:	KeyTask	DA77		92	1	.text	350: LcdDispTime LcdCursor LcdDly500ns LcdDly40us LcdDlyms LcdBSpace KeyPend
288:	KeyScan	DAD3		99	1	.text	351: KeyInit KeyTask KeyScan ClockTask TimeInit TimeSet TimeGet ClockTimerFnct
	VARIABLES:						352:vec8Cvec8Evec90vec92vec94vec96vec98vec9Avec9C
290:	KeyCodeTable	DD65	10	16	1	.rodat	353:vec9EvecA0vecA2vecA4vecA6vecA8vecAAvecACvecAE
291:	KeyTaskStk	1002		64	1	.bss	354:vecB0vecB2vecB4vecB6vecB8vecBAvecBCvecBEvecC0
292:	Key	1042		3	5	.bss	355:vecC2vecC4vecC6vecC8vecCAvecCCvecCEvecD0vecD2
	IODULE:	Clock.o12			3	.255	356:vecD4vecD6vecD8vecDCvecE0vecE2vecE4
	PROCEDURES:	010071.012					357:vecE6vecE8vecE4vecECvecF0vecF2vecF4vecF6
295:	ClockTask	DB36	5 78	120	1	.text	358:vecF8vecFAvecFCvecFE
296:	TimeInit	DBAE		103	1	.text	359: SECTION: ".bss"
297:	TimeSet	DC15		37	1	.text	360: OSTMTCTr KeyTaskStk Key TimeOfDay
298:	TimeGet	DCIA		37	2	.text	361: SECTION: ".init"
299:	ClockTimerFnct	DC5F		6	1	.text	
	· VARIABLES:	DC5F	. 0	0	1	. LEXL	362: _Startup Init 363: SECTION: ".rodata"
		1		1.2	1		
301:	STRING.Clock.Time			13	1	.rodat	364: OSUnMapTbl KeyCodeTable
302:	TimeOfDay	1045		3	25	.bss	365: SECTION: ".rodatal"
303:	SecFlag	1695		2	3	.commo	366: STRING.uC.OS.II.Idle.1 STRING.uC.OS.II.Stat.2 STRING.OS.TmrLock.3
304:	ClockMutexKey	1697		2	5	.commo	367: STRING.OS.TmrSig.4 STRING.uC.OS.II.Tmr.5 STRING.Clock.Timer1
305:	ClockTimer	1699		2	1	.commo	368: SECTION: "s12dp256vecsSEC000000"
306:	ClockTaskStk	169E		64	1	.commo	369: _exit loop
	ODULE:	rtshc12.c.o (ANSIS.LIB)					370: SECTION: "os_cpu_aSEC000000"
	PROCEDURES:						371: OSStartHighRdy OSCtxSw OSIntCtxSw
309:	_BSHL	DDF9		8	8	RUNTIM	372: SECTION: ".common"
310:	_BDIVMODU	DE01	L A	10	9	RUNTIM	373: StartTaskStk UITaskStk TimeDispTaskStk OSCtxSwCtr OSEventFreeList OSEventTbl
311:	_LINC	DE0B	3 5	5	7	RUNTIM	374: OSFlagTbl OSFlagFreeList OSCPUUsage OSIdleCtrMax OSIdleCtrRun OSStatRdy
312:	_lDivMod	DE10) BE	190	1	RUNTIM	375: OSTaskStatStk OSIntNesting OSLockNesting OSPrioCur OSPrioHighRdy OSRdyGrp
313:	_LDIVU	DECE		14	3	RUNTIM	376: OSRdyTbl OSRunning OSTaskCtr OSIdleCtr OSTaskIdleStk OSTCBCur OSTCBFreeList
314:	_CASE_CHECKED	DEDC		11	1	RUNTIM	377: OSTCBHighRdy OSTCBList OSTCBPrioTbl OSTCBTbl OSTickStepState OSMemFreeList
315:	_CASE_CHECKED_BYT			20	2	RUNTIM	378: OSMemTbl OSTime OSTmrFree OSTmrUsed OSTmrTime OSTmrSem OSTmrSemSignal
	_= = _=================================	522,			_		1

379:	OSTmrTbl OSTmrFreeList OSTmrTaskSt	tk OSTmrWheelTbl	SecFlag	ClockMute	exKey		442:	UITask	C0D7	27	39	1	.text
380:	ClockTimer ClockTaskStk				- 1		443:	TimeDispTask	C0FE	28	40	1	.text
	SECTION: "RUNTIME"						444:	SetTheTime	C126	6D7	1751	22	.text
382:		OTHE CACE CHECKE	D CACE	CITECKED I	Name.		445:	OSCPUSaveSR	C7FD	5	5	24	.text
	_BSHL _BDIVMODU _LINC _lDivMod _LI	DIVU _CASE_CHECKE	D _CASE_	спескер_г	DIIE		1						
383:	******						446:	OSCPURestoreSR	C802	3	3	46	.text
384:		******	*****	******	******	*****	447:	OSInitHookBegin	C805	6	6	1	.text
385:	OBJECT LIST SORTED BY ADDRESS						448:	OSInitHookEnd	C80B	1	1	1	.text
386:	Name		hSize	dSize	Ref	Secti	449:	OSTaskCreateHook	C80C	1	1	1	.text
387:							450:	OSTaskDelHook	C80D	1	1	1	.text
388:	OSTmrCtr	1000	2	2	4	.bss	451:	OSTaskIdleHook	C80E	1	1	1	.text
389:	KeyTaskStk	1002	40	64	1	.bss	452:	OSTaskStatHook	C80F	1	1	1	.text
390:	Key	1042	3	3	5	.bss	453:	OSTaskStkInit	C810	22	34	1	.text
391:	TimeOfDay	1045	3	3	25	.bss	454:	OSTaskSwHook	C832	1	1	3	.text
392:	StartTaskStk	1048	40	64			455:		C833	1	1	1	
					1	.commo		OSTCBInitHook					.text
393:	UITaskStk	1088	40	64	1	.commo	456:	OSTimeTickHook	C834	15	21	1	.text
394:	TimeDispTaskStk	10C8	40	64	1	.commo	457:	OSTickInit	C849	12	18	1	.text
395:	OSCtxSwCtr	1108	4	4	10	.commo	458:	OSTickISR	C85B	22	34	1	.text
396:	OSEventFreeList	110C	2	2	3	.commo	459:	OSEventNameSet	C87D	55	85	2	.text
397:	OSEventTbl	110E	F0	240	4	.commo	460:	OSInit	C8D2	21	33	1	.text
398:	OSFlagTbl	11FE	64	100	4	.commo	461:	OSIntExit	C8F3	5C	92	1	.text
399:	OSFlagFreeList	1262	2	2	1	.commo	462:	OSStart	C94F	23	35	1	.text
400:	OSCPUUsage	1264	1	1	3	.commo	463:	OSTimeTick	C972	92	146	1	.text
401:	OSIdleCtrMax	1265	4	4	6	.commo	464:	OS Dummy	CA04	1	1	1	.text
402:	OSIdleCtrRun	1269	4	4	4	.commo	465:	OS_EventTaskRdy	CA05	87	135	2	.text
							1						
403:	OSStatRdy	126D	1	1	2	.commo	466:	OS_EventTaskWait	CA8C	43	67	2	.text
404:	OSTaskStatStk	126E	80	128	1	.commo	467:	OS_EventTOAbort	CACF	3D	61	2	.text
405:	OSIntNesting	12EE	1	1	18	.commo	468:	OS_EventWaitListInit	CB0C	F	15	1	.text
406:	OSLockNesting	12EF	1	1	9	.commo	469:	OS_InitEventList	CB1B	42	66	1	.text
407:	OSPrioCur	12F0	1	1	6	.commo	470:	OS_InitMisc	CB5D	30	48	1	.text
408:	OSPrioHighRdy	12F1	1	1	8	.commo	471:	OS_InitRdyList	CB8D	1D	29	1	.text
409:	OSRdyGrp	12F2	1	1	26	.commo	472:	OS_InitTaskIdle	CBAA	23	35	1	.text
410:	OSRdyTbl	12F3	2	2	16	.commo	473:	OS_InitTaskStat	CBCD	23	35	1	.text
411:	OSRunning	12F5	1	1	8	.commo	474:	OS_InitTCBList	CBF0	4A	74	1	.text
412:	OSTaskCtr	12F5 12F6	1	1	3	.commo	475:	OS_MemClr	CC3A	D	13	7	.text
413:				4			476:	_			77	-	
	OSIdleCtr	12F7	4	_	14	.commo		OS_Sched	CC47	4D		10	.text
414:	OSTaskIdleStk	12FB	40	64	1	.commo	477:	OS_SchedNew	CC94	16	22	3	.text
415:	OSTCBCur	133B	2	2	28	.commo	478:	OS_StrCopy	CCAA	18	24	3	.text
416:	OSTCBFreeList	133D	2	2	5	.commo	479:	OS_StrLen	CCC2	C	12	3	.text
417:	OSTCBHighRdy	133F	2	2	7	.commo	480:	OS_TaskIdle	CCCE	1C	28	1	.text
418:	OSTCBList	1341	2	2	6	.commo	481:	OS_TaskStat	CCEA	92	146	1	.text
419:	OSTCBPrioTbl	1343	20	32	18	.commo	482:	OS_TCBInit	CD7C	CC	204	1	.text
420:	OSTCBTbl	1363	1EF	495	4	.commo	483:	OS_FlagInit	CE48	42	66	1	.text
421:	OSTickStepState	1552	1	1	3	.commo	484:	OS_FlagUnlink	CE8A	30	48	1	.text
422:	OSMemFreeList	1553	2	2	1	.commo	485:	OS_MemInit	CEBA	44	68	1	.text
423:	OSMemTbl	1555	40	64	4	.commo	486:	OSMutexPend	CEFE	18B	395	4	.text
424:	OSTime	1595	4	4	6	.commo	487:	OSMutexPost	D089	A4	164	2	.text
425:	OSTmrFree	1599	2	2	3		488:		D12D	64	100	1	.text
						.commo	1	OSMutex_RdyAtPrio					
426:	OSTmrUsed	159B	2	2	3	.commo	489:	OSSemCreate	D191	40	64	4	.text
427:	OSTmrTime	159D	4	4	13	.commo	490:	OSSemPend	D1D1	89	137	4	.text
428:	OSTmrSem	15A1	2	2	4	.commo	491:	OSSemPost	D25A	47	71	4	.text
429:	OSTmrSemSignal	15A3	2	2	4	.commo	492:	OSTaskCreate	D2A1	7E	126	8	.text
430:	OSTmrTbl	15A5	4E	78	4	.commo	493:	OSTaskDel	D31F	11A	282	2	.text
431:	OSTmrFreeList	15F3	2	2	3	.commo	494:	OSTaskNameSet	D439	6C	108	3	.text
432:	OSTmrTaskStk	15F5	80	128	1	.commo	495:	OSTaskResume	D4A5	77	119	1	.text
433:	OSTmrWheelTbl	1675	20	32	4	.commo	496:	OSTaskSuspend	D51C	7A	122	1	.text
434:	SecFlag	1695	2	2	3	.commo	497:	OSTimeDly	D596	3C	60	4	.text
435:	-	1697	2	2	5		498:	-	D5D2	83	131	1	
	ClockMutexKey					.commo		OSTmrCreate				_	.text
436:	ClockTimer	1699	2	2	1	.commo	499:	OSTmrStart	D655	5D	93	1	.text
437:	ClockTaskStk	169B	40	64	1	.commo	500:	OSTmrSignal	D6B2	7	7	1	.text
438:	_Startup	C000	11	17	1	.init	501:	OSTmr_Alloc	D6B9	24	36	1	.text
439:	Init	C011	4C	76	1	.init	502:	OSTmr_Init	D6DD	9D	157	1	.text
440:	main	C06C	26	38	0	.text	503:	OSTmr_InitTask	D77A	23	35	1	.text
441:	StartTask	C092	45	69	1	.text	504:	OSTmr_Link	D79D	82	130	2	.text
							1						

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505:	OSTmr Unlink	D81F	47	71	2	.text	568:	vecB2	FFB2	2	2	0	.text
506:	OSTmr_Lock	D866	12	18	3	.text	569:	vecB4	FFB4	2	2	0	.text
507:	OSTmr_Unlock	D878	6	6	7	.text	570:	vecB6	FFB6	2	2	0	.text
508:	OSTmr_Task	D87E	86	134	2	.text	571:	vecB8	FFB8	2	2	0	.text
509:	LcdWrCmd	D904	14	20	10	.text	572:	vecBA	FFBA	2	2	0	.text
510:	LcdInit	D918	4F	79	1	.text	573:	vecBC	FFBC	2	2	0	.text
511:	LcdDispChar	D967	E	14	52	.text	574:	vecBE	FFBE	2	2	0	.text
512:	LcdClrDisp	D975	9	9	1	.text	575:	vecC0	FFC0	2	2	0	.text
513:	LcdMoveCursor	D97E	15	21	10	.text	576:	vecC2	FFC2	2	2	0	.text
514:	LcdDispTime	D993	70	112	2	.text	577:	vecC4	FFC4	2	2	0	.text
515:	LcdCursor	DA03	1C	28	2	.text	578:	vecC6	FFC6	2	2	0	.text
516:	LcdDly500ns	DA1F	5	5	3	.text	579:	vecC8	FFC8	2	2	0	.text
517:	LcdDly40us	DA24	A	10	3	.text	580:	vecCA	FFCA	2	2	0	.text
518:	LcdDlyms	DA2E	12	18	9	.text	581:	vecCC	FFCC	2	2	0	.text
519:	LcdBSpace	DA40	5	5	1	.text	582:	vecCE	FFCE	2	2	0	.text
520:	KeyPend	DA45	14	20	8	.text	583:	vecD0	FFD0	2	2	0	.text
521:	KeyInit	DA59	1E	30	1	.text	584:	vecD2	FFD2	2	2	0	.text
522:	KeyTask	DA77	5C	92	1	.text	585:	vecD4	FFD4	2	2	0	.text
523:	KeyScan	DAD3	63	99	1	.text	586:	vecD6	FFD6	2	2	0	.text
524:	ClockTask	DB36	78	120	1	.text	587:	vecD8	FFD8	2	2	0	.text
525:	TimeInit	DBAE	67	103	1	.text	588:	vecDA	FFDA	2	2	0	.text
526:	TimeSet	DC15	25	37	1	.text	589:	vecDC	FFDC	2	2	0	.text
527:	TimeGet	DC3A	25	37	2	.text	590:	vecDE	FFDE	2	2	0	.text
528:	ClockTimerFnct	DC5F	6	6	1	.text	591:	vecE0	FFE0	2	2	0	.text
529:	OSUnMapTbl	DC65	100	256	2	.rodat	592:	vecE2	FFE2	2	2	0	.text
530:	KeyCodeTable	DD65	10	16	1	.rodat	593:	vecE4	FFE4	2	2	0	.text
531:	STRING.uC.OS.II.Idle.1	DD75	E	14	1	.rodat	594:	vecE6	FFE6	2	2	0	.text
532:	STRING.uC.OS.II.Stat.2	DD83	E	14	1	.rodat	595:	vecE8	FFE8	2	2	0	.text
533:	STRING.OS.TmrLock.3	DD91	В	11	1	.rodat	596:	vecEA	FFEA	2	2	0	.text
534: 535:	STRING.OS.TmrSig.4	DD9C	A	10 13	1	.rodat	597: 598:	vecEC	FFEC	2	2	0	.text
536:	STRING.uC.OS.II.Tmr.5 STRING.Clock.Timer1	DDA6 DDB3	D D	13	1 1	.rodat .rodat	598:	vecEE	FFEE FFF0	2	2	0	.text
537:	exit	DDC0	2	2	55	s12dp2	600:	vecF0	FFF2	2	2	0	.text .text
538:	loop	DDC0 DDC2	2	2	0	s12dp2 s12dp2	601:	vecF2 vecF4	FFF4	2	2	0	.text
539:	OSStartHighRdy	DDC2	C.	12	1	os_cpu	602:	vecF4 vecF6	FFF6	2	2	0	.text
540:	OSCtxSw	DDD0	17	23	1	os_cpu	603:	vecF8	FFF8	2	2	0	.text
541:	OSIntCtxSw	DDE7	12	18	1	os_cpu	604:	vecF0 vecFA	FFFA	2	2	0	.text
542:	_BSHL	DDF9	8	8	8	RUNTIM	605:	vecFC	FFFC	2	2	0	.text
543:	_BDIVMODU	DE01	A	10	9	RUNTIM	606:	vecFE	FFFE	2	2	0	.text
544:	_LINC	DE0B	5	5	7	RUNTIM	607:		1112	-	-	Ü	
545:	_lDivMod	DE10	BE	190	1	RUNTIM		*******	*******	*****	*****	****	*****
546:	_LDIVU	DECE	E	14	3	RUNTIM		JNUSED-OBJECTS SECTION					
547:	_CASE_CHECKED	DEDC	В	11	1	RUNTIM	1						
548:	_CASE_CHECKED_BYTE	DEE7	14	20	2	RUNTIM	611: N	NOT USED PROCEDURES					
549:	vec8C	FF8C	2	2	0	.text		cos ii.o12:					
550:	vec8E	FF8E	2	2	0	.text	613:	OSEventNameGet OSIntEnter OS	SchedLock OSSchedUnlock O	SStatInit	OSVersi	on	
551:	vec90	FF90	2	2	0	.text	614:	OS_MemCopy OSFlagAccept OSFl	agCreate OSFlagDel OSFlag	NameGet OS	FlagNam	eSet	
552:	vec92	FF92	2	2	0	.text	615:	OSFlagPend OSFlagPendGetFlag	sRdy OSFlagPost OSFlagQue	ry OS_Flag	Block		
553:	vec94	FF94	2	2	0	.text	616:	OS_FlagTaskRdy OSMemCreate C					
554:	vec96	FF96	2	2	0	.text	617:	OSMemQuery OSMutexAccept OSM	MutexCreate OSMutexDel OSM	utexQuery	OSSemAc	cept	
555:	vec98	FF98	2	2	0	.text	618:	OSSemDel OSSemPendAbort OSSe	emQuery OSSemSet OSTaskCha	ngePrio OS	TaskDel	Req	
556:	vec9A	FF9A	2	2	0	.text	619:	OSTaskNameGet OSTaskQuery OS	TimeDlyHMSM OSTimeDlyResu	me OSTimeG	et OSTi	meSet	
557:	vec9C	FF9C	2	2	0	.text	620:	OSTmrDel OSTmrNameGet OSTmrR	RemainGet OSTmrStateGet OS	TmrStop OS	Tmr_Fre	е	
558:	vec9E	FF9E	2	2	0	.text	621: I	LCD.o12:					
559:	vecA0	FFA0	2	2	0	.text	622:	LcdClrLine LcdDispByte LcdDi	spStrg LcdDispDecByte Lcd	FSpace			
560:	vecA2	FFA2	2	2	0	.text	623: r	rtshc12.c.o (ANSIS.LIB):					
561:	vecA4	FFA4	2	2	0	.text	624:	_BSHRS _BSHRU _BDIVMODS _ISH					
562:	vecA6	FFA6	2	2	0	.text	625:	_LAND _LOR _LXOR _LCMP _LCMF	P_P _LCMP_PP _LNEG _LCOM _	LDEC _LMUL	_LMULU	16x32	
563:	vecA8	FFA8	2	2	0	.text	626:	_LMULS16x32 _NEG_P _LDIVS _L					
564:	vecAA	FFAA	2	2	0	.text	627:	_CASE_DIRECT_BYTE _CASE_SEAR		E_SEARCH_8			
565:	vecAC	FFAC	2	2	0	.text	628:	_CASE_SEARCH_8_BYTE _FCALL _	_FPCMP				
566:	vecAE	FFAE	2	2	0	.text	1	NOT USED VARIABLES					
567:	vecB0	FFB0	2	2	0	.text	630: r	rtshc12.c.o (ANSIS.LIB):					

631:	_PowOfTwo_8 _PowOfTwo_1	6 _PowOfTwo_32 errno	694:	OSCPUSaveSR OSIdleCtr OSIdleCtrRun OSCPURestoreSR
632:		************	695:	OSCPUUsage OSTaskStatHook
		****************	696: OS_TCBInit	USES OSCPUSaveSR OSTCBFreeList OSCPURestoreSR _BSHL
	OPYDOWN SECTION		697: 698:	OSTCBInitHook OSTaskCreateHook OSTCBPrioTbl OSTCBLis OSRdyGrp OSRdyTbl OSTaskCtr
	ROM-ADDRESS: 0xDE		699: OS_FlagInit	USES OSFlagTbl OS_MemClr OSFlagFreeList
	illing bytes inserted		700: OS_MemInit	USES OSMemTbl OS_MemClr OSMemFreeList
638: (701: OSMutexPend	USES OSIntNesting OSLockNesting OSCPUSaveSR OSTCBCur
639:			702:	OSCPURestoreSR OSMutexPend OSRdyTbl OSRdyGrp _BSHL
640: *	******	****************	703:	OSTCBPrioTbl OS_EventTaskWait OS_Sched OS_EventTOAbo
641: 0	BJECT-DEPENDENCIES SECTI	ON	704: OSMutexPost	USES OSIntNesting OSCPUSaveSR OSTCBCur
642:			705:	OSCPURestoreSR OSMutex_RdyAtPrio OSTCBPrioTbl OS_Eve
643: _	Startup	USES _startupData Init	706:	OS_Sched
644: I1		USES _startupData	707: OSMutex_RdyAtPrio	USES OSRdyTbl OSRdyGrp _BSHL OSTCBPrioTbl
645: ma	ain	USES OSInit KeyInit LcdInit StartTask StartTaskStk	708: OSSemCreate	USES OSIntNesting OSCPUSaveSR OSEventFreeList
646:		OSTaskCreate OSStart	709:	OSCPURestoreSR OS_EventWaitListInit
	tartTask	USES OSTickInit LcdClrDisp LcdMoveCursor TimeInit	710: OSSemPend 711:	USES OSIntNesting OSLockNesting OSCPUSaveSR OSTCBCur
648: 649:		UITask UITaskStk OSTaskCreate TimeDispTask	711: 712: OSSemPost	OS_EventTaskWait OSCPURestoreSR OS_Sched OS_EventTOA
650: U	TTack	TimeDispTaskStk OSTaskDel USES KeyPend SetTheTime	712: OSSEMPOST 713:	USES OSCPUSaveSR OS_EventTaskRdy OSCPURestoreSR OS Sched
	imeDispTask	USES TimeGet LcdMoveCursor LcdDispTime	714: OSTaskCreate	USES OSCPUSaveSR OSIntNesting OSCPURestoreSR
	etTheTime	USES OSTaskSuspend TimeGet LcdMoveCursor KeyPend	715:	OSTCBPrioTbl OSTaskStkInit OS_TCBInit OSRunning OS_S
653:	001110111110	SetTheTime _CASE_CHECKED LcdCursor LcdDispChar LcdBS	716: OSTaskDel	USES OSIntNesting OSCPUSaveSR OSTCBCur OSTCBPrioTbl
654:		OSTimeDly TimeSet OSTaskResume	717:	OSCPURestoreSR OSTaskDel OSRdyTbl OSRdyGrp OS_FlagUn
655: O	SInitHookBegin	USES OSTmrCtr	718:	OSLockNesting OS_Dummy OSTaskDelHook OSTaskCtr OSTCB
656: O	STimeTickHook	USES OSTmrCtr OSTmrSignal	719:	OSTCBFreeList OSRunning OS_Sched
657: O	STickISR	USES OSIntNesting OSTCBCur OSTimeTick OSIntExit	720: OSTaskNameSet	USES OSIntNesting OSCPUSaveSR OSTCBCur OSTCBPrioTbl
	SEventNameSet	USES OSIntNesting OSCPUSaveSR OS_StrLen	721:	OSCPURestoreSR OS_StrLen OS_StrCopy
659:		OSCPURestoreSR OS_StrCopy	722: OSTaskResume	USES OSCPUSaveSR OSTCBPrioTbl OSCPURestoreSR
660: O	SInit	USES OSInitHookBegin OS_InitMisc OS_InitRdyList	723:	OSRdyGrp OSRdyTbl OSRunning OS_Sched
661:		OS_InitTCBList OS_InitEventList OS_FlagInit OS_MemIn	724: OSTaskSuspend	USES OSCPUSaveSR OSTCBCur OSTCBPrioTbl
662:	CT	OS_InitTaskIdle OS_InitTaskStat OSTmr_Init OSInitHoo	725:	OSCPURestoreSR OSRdyTbl OSRdyGrp OS_Sched
664:	SIntExit	USES OSRunning OSCPUSaveSR OSIntNesting OSLockNesting OS_SchedNew OSPrioHighRdy OSPrioCur	726: OSTimeDly 727:	USES OSIntNesting OSCPUSaveSR OSTCBCur OSRdyTbl OSRdyGrp OSCPURestoreSR OS_Sched
665:		OSTCBPrioTbl OSTCBHighRdy _LINC OSCtxSwCtr OSIntCtxS	728: OSTmrCreate	USES OSIntNesting OSTmr_Lock OSTmr_Alloc
666:		OSCPURestoreSR	729:	OSTmr_Unlock OS_StrLen OS_StrCopy
667: 0	SStart	USES OSRunning OS_SchedNew OSPrioHighRdy OSPrioCur	730: OSTmrStart	USES OSIntNesting OSTmr_Lock _CASE_CHECKED_BYTE
668:		OSTCBPrioTbl OSTCBHighRdy OSTCBCur OSStartHighRdy	731:	OSTmr_Unlink OSTmr_Link OSTmr_Unlock
669: O	STimeTick	USES OSTimeTickHook OSCPUSaveSR OSTime _LINC	732: OSTmrSignal	USES OSTmrSemSignal OSSemPost
670:		OSCPURestoreSR OSRunning OSTickStepState _CASE_CHECK	733: OSTmr_Alloc	USES OSTmrFreeList OSTmrUsed OSTmrFree
671:		OSTCBList OSRdyGrp OSRdyTbl	734: OSTmr_Init	USES OSTmrTbl OS_MemClr OSTmrWheelTbl OSTmrTime
	S_EventTaskRdy	USES OSUnMapTbl _BSHL OSTCBPrioTbl OSRdyGrp OSRdyTbl	735:	OSTmrUsed OSTmrFree OSTmrFreeList OSSemCreate OSTmrS
	S_EventTaskWait	USES OSTCBCur OSRdyTbl OSRdyGrp	736:	OSTmrSemSignal STRING.OS.TmrLock.3 OSEventNameSet
	S_EventTOAbort	USES OSTCBCur	737:	STRING.OS.TmrSig.4 OSTmr_InitTask
	S_InitEventList S_InitMisc	USES OSEventTbl OS_MemClr OSEventFreeList USES OSTime OSIntNesting OSLockNesting OSTaskCtr	738: OSTmr_InitTask 739:	USES OSTmr_Task OSTmrTaskStk OSTaskCreate STRING.uC.OS.II.Tmr.5 OSTaskNameSet
677:	S_IIIICMISC	OSRunning OSCtxSwCtr OSIdleCtr OSIdleCtrRun OSIdleCt	740: OSTmr_Link	USES OSTmrTime OSTmrWheelTbl
678:		OSStatRdy	741: OSTmr Unlink	USES OSTmrWheelTbl
	S_InitRdyList	USES OSRdyGrp OSRdyTbl OSPrioCur OSPrioHighRdy	742: OSTmr Lock	USES OSTmrSem OSSemPend
680:		OSTCBHighRdy OSTCBCur	743: OSTmr_Unlock	USES OSTmrSem OSSemPost
681: O	S_InitTaskIdle	USES OS_TaskIdle OSTaskIdleStk OSTaskCreate	744: OSTmr_Task	USES OSTmrSemSignal OSSemPend OSTmr_Lock OSTmrTime
682:		STRING.uC.OS.II.Idle.1 OSTaskNameSet	745:	_LINC OSTmrWheelTbl OSTmr_Unlink OSTmr_Link
683: O	S_InitTaskStat	USES OS_TaskStat OSTaskStatStk OSTaskCreate	746:	OSTmr_Unlock OSTmr_Task
684:		STRING.uC.OS.II.Stat.2 OSTaskNameSet	747: LcdWrCmd	USES LcdDly500ns LcdDly40us
	S_InitTCBList	USES OSTCBTbl OS_MemClr OSTCBPrioTbl OSTCBList	748: LcdInit	USES LcdDlyms LcdWrCmd
686:	a a-h-d	OSTCBFreeList	749: LcdDispChar	USES LcdDly500ns LcdDly40us
	S_Sched	USES OSCPUSaveSR OSIntNesting OSLockNesting	750: LcdClrDisp	USES LcdWrCmd LcdDlyms
688: 689:		OS_SchedNew OSPrioHighRdy OSPrioCur OSTCBPrioTbl OSTCBHighRdy _LINC OSCtxSwCtr OSCPURestoreSR	751: LcdMoveCursor 752: LcdDispTime	USES LcdWrCmd USES _BDIVMODU LcdDispChar
	S_SchedNew	USES OSRdyGrp OSUnMapTbl OSRdyTbl OSPrioHighRdy	752: LcdCursor	USES LcdWrCmd
	S_TaskIdle	USES OSCPUSaveSR OSIdleCtr _LINC OSCPURestoreSR	754: LcdDly40us	USES LcdDly500ns
692:		OSTaskidleHook	755: LcdDlyms	USES LcdDly40us
	S_TaskStat	USES OSTimeDly OSStatRdy OSIdleCtrMax _LDIVU	756: LcdBSpace	USES LcdWrCmd
		l l		

			1			
757:	KeyPend	USES Key OSSemPend	820:	+-	OSCPUSaveSR	(see above)
	KeyInit	USES OSSemCreate Key KeyTask KeyTaskStk OSTaskCreate	821:	i i i i		
	KeyTask	USES OSTimeDly KeyScan KeyCodeTable Key OSSemPost	822:	+-	OSCPURestoreSR	(see above)
	ClockTask	USES SecFlag OSSemPend TimeOfDay	823:			
	TimeInit	USES TimeOfDay LcdDispTime ClockTimerFnct	824:	+-	OSTaskStkInit	
762:		STRING.Clock.Timer1 OSTmrCreate ClockTimer OSTmrSt	825:		og mgp.r; b	
763: 764:		ClockMutexKey ClockTask ClockTaskStk OSTaskCreate OSSemCreate SecFlag	826: 827:	+-	OS_TCBInit	
	TimeSet	USES ClockMutexKey OSMutexPend TimeOfDay OSMutexPost	828:		+- OSCPUSaveSR	(see above)
	TimeGet	USES ClockMutexKey OSMutexPend TimeOfDay OSMutexPost	829:			(Bee above)
	ClockTimerFnct	USES SecFlag OSSemPost	830:	i i i i	+- OSCPURestoreSR	(see above)
	OSStartHighRdy	USES OSTaskSwHook OSRunning OSTCBHighRdy	831:	i i i i	1	,,
769:	OSCtxSw	USES OSTCBCur OSTaskSwHook OSTCBHighRdy	832:	i i i i	+BSHL	
770:		OSPrioHighRdy OSPrioCur	833:	i i i i		
	OSIntCtxSw	USES OSTaskSwHook OSTCBHighRdy OSTCBCur	834:		+- OSTCBInitHook	
772:		OSPrioHighRdy OSPrioCur	835:			
	_LDIVU	USES _lDivMod	836:		+- OSTaskCreateHoo	ok
774:		**************	837:			
		**************	838:	+-	OS_Sched	
776:	DEPENDENCY TREE	************	839:		OGGDIIGGD	(
			840:		+- OSCPUSaveSR	(see above)
778: 779:	main and _Startup Group		841: 842:		+- OS_SchedNew	
780:	 +- main		843:		OS_Schedivew	
781:			844:		+LINC	(see above)
782:	+- OSInit		845:		i _minc	(See above)
783:			846:	i i i	+- OSCPURestoreSR	(see above)
784:			847:	i i i		,,
785:			848:	+- os:	TaskNameSet	
786:	+- OS_InitMisc		849:	i i - I		
787:	i i l		850:	+-	OSCPUSaveSR	(see above)
788:	+- OS_InitRdyList		851:			
789:			852:	+-	OSCPURestoreSR	(see above)
790:	+- OS_InitTCBList		853:			
791:			854:	+-	OS_StrLen	
792:	+- OS_MemClr		855:			
793:			856:	+-	OS_StrCopy	
794:		st .	857:			
795:		(man_alama)	858:	+- OS_In:	itTaskStat	
796: 797:	+- OS_MemClr	(see above)	859: 860:		_TaskStat	
798:			861:		_laskStat	
799:	+- OS_FIAGINIC		862:		OSTimeDly	
800:	+- OS_MemClr	(see above)	863:			
801:		(111	864:	i i i i	+- OSCPUSaveSR	(see above)
802:	+- OS_MemInit		865:	i i i i	1	,,
803:	i i ı ı ⁻		866:		+- OSCPURestoreSR	(see above)
804:	+- OS_MemClr	(see above)	867:	i i i i		
805:	i i i		868:		+- OS_Sched	(see above)
806:	+- OS_InitTaskIdle		869:			
807:			870:	+-	_LDIVU	
808:	+- OS_TaskIdle		871:			
809:			872:	i i i i	+lDivMod	
810:	+- OSCPUSave	SR	873:		oggpiig. CP	(
811:	TING		874:	+-	OSCPUSaveSR	(see above)
812:			875:		OCCULID out CD	(a o o o la)
813: 814:		oroCD	876: 877:		OSCPURestoreSR	(see above)
814: 815:		OT COV	877:		OSTaskStatHook	
816:		eHook	879:	+-	ODIABNOLALHOUK	
817:		CHOOK	880:		TaskCreate	(see above)
818:			881:		Labrici cacc	(Dec above)
819:			882:	+- os	TaskNameSet	(see above)
			1	, , , , , , , , , , , , , , , , , , , ,		

883: 884: +- OSTmr_Init 885: 886: +- OS_MemClr (see above) 887: 888: +- OSSemCreate 889: 890: +- OSCPUSaveSR (see above) 891: 892: +- OSCPURestoreSR (see above) 893: 894: +- OS_EventWaitListInit 895: 896: +- OSEventNameSet 897: 898: +- OSCPUSaveSR (see above) 899: 900: +- OS_StrLen (see above) 901: 902: +- OSCPURestoreSR (see above) 903: 904: +- OS_StrCopy (see above) 905: 906: +- OSTmr_InitTask 907: 908: +- OSTmr Task 909: 910: +- OSSemPend 911: 912: +- OSCPUSaveSR (see above) 913: 914: +- OS_EventTaskWait 915: 916: +- OSCPURestoreSR (see above) 917: 918: +- OS_Sched (see above) 919: 920: +- OS_EventTOAbort 921: 922: +- OSTmr_Lock 923: 924: (see above) +- OSSemPend 925: 926: (see above) +- _LINC 927: 928: +- OSTmr_Unlink 929: 930: +- OSTmr Link 931: 932: +- OSTmr Unlock 933: 934: +- OSSemPost 935: 936: +- OSCPUSaveSR (see above) 937: 938: +- OS_EventTaskRdy 939: 940: +- _BSHL (see above) 941: 942: +- OSCPURestoreSR (see above) 943: 944: +- OS_Sched (see above) 945:

946: +- OSTaskCreate (see above) 947: 948: +- OSTaskNameSet (see above) 949: 950: +- OSInitHookEnd 951: 952: +- KeyInit 953: 954: +- OSSemCreate (see above) 955: 956: +- KeyTask 957: 958: +- OSTimeDly (see above) 959: 960: +- KeyScan 961: 962: +- OSSemPost (see above) 963: 964: +- OSTaskCreate (see above) 965: +- LcdInit 966: 967: 968: +- LcdDlyms 969: 970: +- LcdDly40us 971: 972: +- LcdDly500ns 973: +- LcdWrCmd 974: 975: 976: +- LcdDly500ns (see above) 977: 978: +- LcdDly40us (see above) 979: 980: +- StartTask 981: 982: +- OSTickInit 983: 984: +- LcdClrDisp 985: 986: +- LcdWrCmd (see above) 987: 988: +- LcdDlyms (see above) 989: 990: +- LcdMoveCursor 991: 992: +- LcdWrCmd (see above) 993: 994: +- TimeInit 995: +- LcdDispTime 996: 997: 998: +- _BDIVMODU 999: 1000: +- LcdDispChar 1001: 1002: +- LcdDly500ns (see above) 1003: 1004: +- LcdDly40us (see above) 1005: 1006: +- ClockTimerFnct 1007: 1008: +- OSSemPost (see above)

1009:		
1011:	1009:	
1012:		+- OSTmrCreate
1013:		(GOO above)
1014:		
1016:	1014:	
1018:	1016:	
1020:	1018:	
1022:	1020:	+- OS_StrCopy (see above)
1024:	1022:	
1025:		
1026:		
1028:		+CASE_CHECKED_BYTE
1029:		
1030:		
1032:	1030:	
1033:		
1035:		
1036:		+- ClockTask
1037:		
1038:		
1040:		
1041:		
1042:		+- OSSemCreate (see above)
1043:		
1045:		
1046:	1044:	+- KeyPend
1047:		
1048:		
1049:		
1051:		
1052:		+- OSTaskSuspend
1053:		
1054:		
1056:		+- OSCPURestoreSR (see above)
1057:		
1058:		
1059:		
1061:		
1062:	1060:	+- OSMutexPend
1063:		
1064:		
1065:		
1067:		
1068:		+- BSHL (see above)
1069:		
1070: +- OS_Sched (see above)		
		+- OS_Sched (see above)
	1071:	

```
1072:
                         +- OS_EventTOAbort
                                                  (see above)
1073:
1074:
                      +- OSMutexPost
1075:
1076:
                          +- OSCPUSaveSR
                                                  (see above)
1077:
1078:
                         +- OSCPURestoreSR
                                                  (see above)
1079:
                         +- OSMutex_RdyAtPrio
1080:
1081:
1082:
                           +- _BSHL
                                                     (see above)
1083:
1084:
                         +- OS_EventTaskRdy
                                                  (see above)
1085:
1086:
                         +- OS_Sched
                                                  (see above)
1087:
                   +- LcdMoveCursor
                                            (see above)
1088:
1089:
1090:
                   +- KeyPend
                                            (see above)
1091:
                   +- _CASE_CHECKED
1092:
1093:
1094:
                   +- LcdCursor
1095:
1096:
                      +- LcdWrCmd
                                               (see above)
1097:
1098:
                   +- LcdDispChar
                                            (see above)
1099:
1100:
                   +- LcdBSpace
1101:
1102:
                      +- LcdWrCmd
                                               (see above)
1103:
1104:
                   +- OSTimeDly
                                            (see above)
1105:
1106:
                   +- TimeSet
1107:
1108:
                      +- OSMutexPend
                                               (see above)
1109:
1110:
                      +- OSMutexPost
                                               (see above)
1111:
1112:
                   +- OSTaskResume
1113:
1114:
                      +- OSCPUSaveSR
                                               (see above)
1115:
1116:
                      +- OSCPURestoreSR
                                               (see above)
1117:
1118:
                                               (see above)
                      +- OS_Sched
1119:
1120:
             +- OSTaskCreate
                                      (see above)
1121:
1122:
             +- TimeDispTask
1123:
1124:
                +- TimeGet
                                         (see above)
1125:
1126:
                +- LcdMoveCursor
                                        (see above)
1127:
1128:
                +- LcdDispTime
                                        (see above)
1129:
1130:
             +- OSTaskDel
1131:
1132:
                +- OSCPUSaveSR
                                         (see above)
1133:
1134:
                +- OSCPURestoreSR
                                        (see above)
```

```
lab4.map
```

```
1135:
1136:
               +- OS FlagUnlink
1137:
1138:
               +- OS_Dummy
1139:
1140:
               +- OSTaskDelHook
1141:
1142:
               +- OS_Sched
                                       (see above)
1143:
1144:
         +- OSTaskCreate
                                  (see above)
1145:
1146:
         +- OSStart
1147:
1148:
            +- OS_SchedNew
                                    (see above)
1149:
1150:
            +- OSStartHighRdy
1151:
1152:
               +- OSTaskSwHook
1153:
1154: +- Startup
1155:
1156:
         +- Init
1157:
1158: _ORG00001
1159: |
1160: +- exit
1161: |
1162: +- OSTickISR
1163:
         +- OSTimeTick
1164:
1165:
1166:
            +- OSTimeTickHook
1167:
1168:
               +- OSTmrSignal
1169:
1170:
                  +- OSSemPost
                                          (see above)
1171:
1172:
            +- OSCPUSaveSR
                                    (see above)
1173:
1174:
                                    (see above)
            +- _LINC
1175:
1176:
                                     (see above)
            +- OSCPURestoreSR
1177:
1178:
             +- _CASE_CHECKED_BYTE
                                    (see above)
1179:
1180:
          +- OSIntExit
1181:
1182:
            +- OSCPUSaveSR
                                     (see above)
1183:
1184:
             +- OS SchedNew
                                     (see above)
1185:
1186:
             +- _LINC
                                     (see above)
1187:
1188:
             +- OSIntCtxSw
1189:
1190:
               +- OSTaskSwHook
                                       (see above)
1191:
1192:
             +- OSCPURestoreSR
                                    (see above)
1193:
1194: +- OSCtxSw
1195:
1196:
          +- OSTaskSwHook
                                  (see above)
1197:
```