

```
1: #include <hidef.h>          /* common defines and macros */
2: #include <mc9s12dp512.h>     /* derivative information */
3: #pragma LINK_INFO DERIVATIVE "mc9s12dp512"
4:
5: #include "PLL.h"
6: #include "DAC.h"
7: #include "music.h"
8: #include "switch.h"
9:
10:
11: void main(void) {
12:     // Initialize needed modules
13:     PLL_Init();
14:     DAC_Init();
15:     Switch_Init();
16:     Music_InitOC0();
17:     Music_InitOC1();
18:     Music_InitOC2();
19:     Music_InitOC3();
20:
21:     // Start off paused
22:     asm sei
23:
24:     for(;;) {
25:         // Play button
26:         if(Switch_Data() & 0x08) {
27:             asm cli
28:         }
29:         // Pause button
30:         if(Switch_Data() & 0x04) {
31:             asm sei
32:         }
33:         // Restart button
34:         if(Switch_Data() & 0x02) {
35:             Music_Restart();
36:         }
37:     }
38: }
```