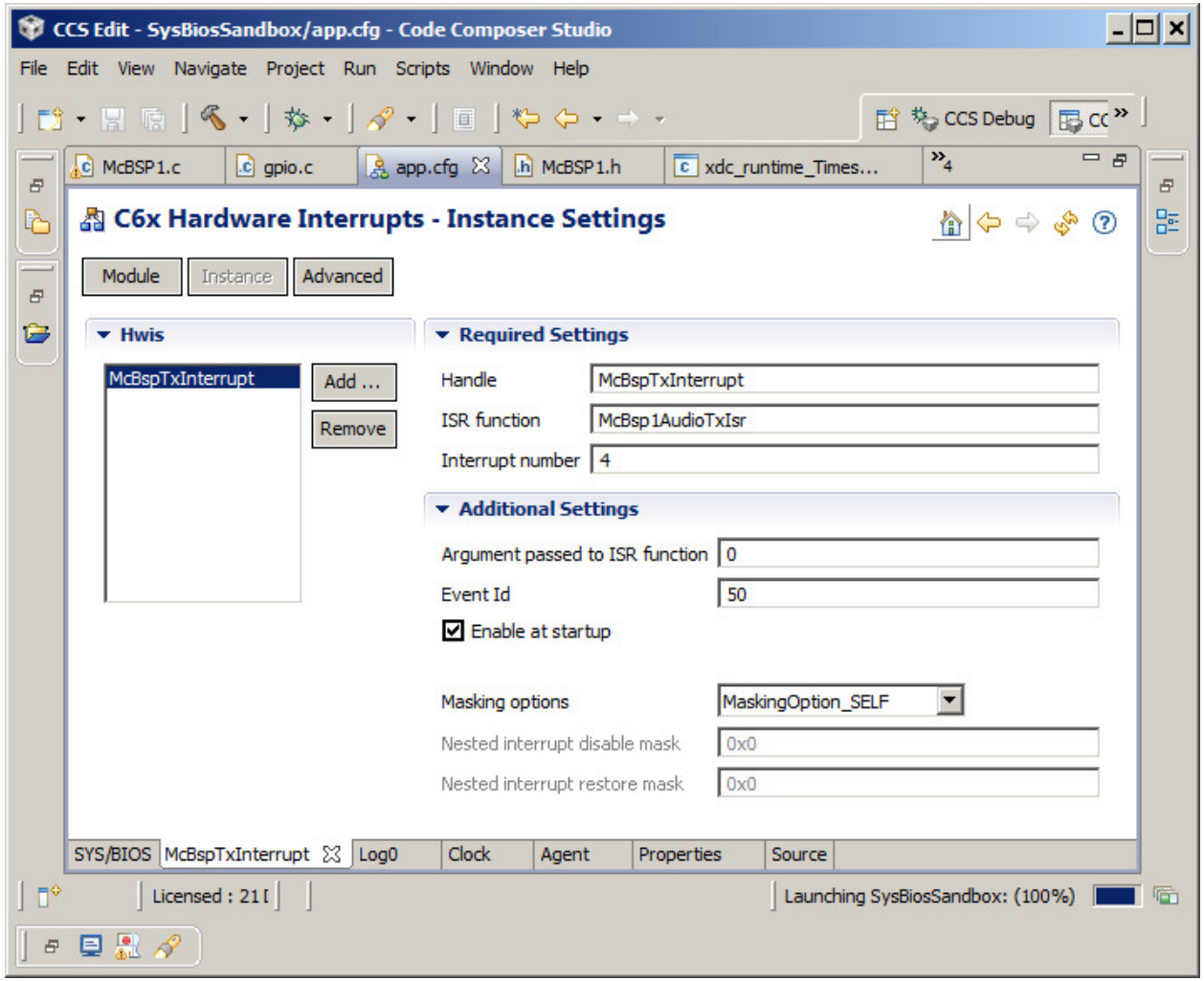
```
static Int32 MultiplexedSineTable[NUM_SINE_SAMPLES][NUM_OUT_CHANNELS];
static Int32 SineTable[NUM_SINE_SAMPLES] =
{       //  1kHz sampled at 48 kHz sample rate - 48 samples.
        0x00000000, 0x10B5150F, 0x2120FB82, 0x30FBC54C, 0x3FFFFFFF, 0x4DEBE4FD, 0x5A827999,        0x658C9A2C,
        0x6ED9EBA0, 0x7641AF3B, 0x7BA3751C, 0x7EE7AA4A, 0x7FFFFFFF, 0x7EE7AA4A, 0x7BA3751C,        0x7641AF3B,
        0x6ED9EBA0, 0x658C9A2C, 0x5A827999, 0x4DEBE4FD, 0x3FFFFFFF, 0x30FBC54C, 0x2120FB82,        0x10B5150F,
        0x00000000, 0xEF4AEAF1, 0xDEDF047E, 0xCF043AB3, 0xC0000001, 0xB2141B03, 0xA57D8667,        0x9A7365D4,
        0x91261460, 0x89BE50C5, 0x845C8AE4, 0x811855B6, 0x80000001, 0x811855B6, 0x845C8AE4,        0x89BE50C5,
        0x91261460, 0x9A7365D4, 0xA57D8667, 0xB2141B03, 0xC0000001, 0xCF043AB4, 0xDEDF047E,        0xEF4AEAF1
};
static Int32 DivideTable[NUM_OUT_CHANNELS] = {1,3,5,7,9,2,4,6,8,10};

void MakeMultiplexedSineTable(void)
{
        Uint32 ChannelIndx;
        Uint32 SampleIndx;

        for (SampleIndx = 0; NUM_SINE_SAMPLES > SampleIndx; SampleIndx++)
        {
                for (ChannelIndx = 0; NUM_OUT_CHANNELS > ChannelIndx; ChannelIndx++)
                {
                        MultiplexedSineTable[SampleIndx][ChannelIndx] = SineTable[SampleIndx]/DivideTable[ChannelIndx];
                }
        }
}



void McBsp1AudioTxIsr (void)
{
        static Uint32 ChannelIndx = 0;
        static Uint32 SampleIndx = 0;

        MCBSP1_DXR_32BIT = MultiplexedSineTable[SampleIndx][ChannelIndx++];
        if (NUM_OUT_CHANNELS <= ChannelIndx)
        {
                ChannelIndx = 0;
                if (NUM_SINE_SAMPLES <= ++SampleIndx) SampleIndx = 0;
        }
}
```


CCS Edit - SysBiosSandbox/app.cfg - Code Composer Studio
File Edit View Navigate Project Run Scripts Window Help
CCS Debug
McBSP1.c
gpio.c
app.cfg
McBSP1.h
xdc_runtime_Times...
C6x Hardware Interrupts - Instance Settings
Module
Instance
Advanced
Hwis
McBspTxInterrupt
Add ...
Remove
Required Settings
Handle
McBspTxInterrupt
ISR function
McBsp1AudioTxIsr
Interrupt number
4
Additional Settings
Argument passed to ISR function
0
Event Id
50
Enable at startup
Masking options
MaskingOption_SELF
Nested interrupt disable mask
0x0
Nested interrupt restore mask
0x0
SYS/BIOS
McBspTxInterrupt
Log0
Clock
Agent
Properties
Source
Licensed : 21
Launching SysBiosSandbox: (100%)