question 0 views SysTick_Wait Question from C10 Quiz **Longest Delay?** Tried: $2^{**}32$ (for longword) * $(12.5^{**}-9)$ (the 12.5 ns) * 800000 = 461169 (incorrect) Does anyone know what I'm doing wrong here? Thanks. SysTick_Wait (1 point possible) Assume we are calling SysTick_Wait as defined in Program 10.2. The bus period is 12.5 ns (80 MHz). What is the longest delay in seconds that we can create by calling this function just once? #define NVIC_ST_CTRL_R (*((volatile unsigned long *)0xE000E010)) #define NVIC ST RELOAD R (*((volatile unsigned long *)0xE000E014)) #define NVIC_ST_CURRENT_R (*((volatile unsigned long *)0xE000E018)) void SysTick_Init(void) { NVIC ST CTRL R = 0; // disable SysTick during setup $NVIC_ST_CTRL_R = 0x000000005;$ // enable SysTick with core clock // The delay parameter is in units of the 80 MHz core clock. (12.5 ns) void SysTick_Wait(unsigned long delay) { while((NVIC_ST_CTRL_R&0x00010000)=0){ // wait for count flag // 800000*12.5ns equals 10ms void SysTick Wait10ms (unsigned long delay) { unsigned long i; for(i=0; i<delay; i++){ SysTick_Wait(800000); // wait 10ms Program 10.2. Use of SysTick to delay for a specified amount of time (SysTick_Wait_xxx.zip). 461169 - incorrect 461169 c10 Just now by Karen West the students' answer, where students collectively construct a single answer Click to start off the wiki answer followup discussions for lingering questions and comments

1 of 1 04/02/2014 04:21 PM