

Organizacija računalnikov

Laboratorijske vaje

R.Rozman 2017

Vsebina vaj

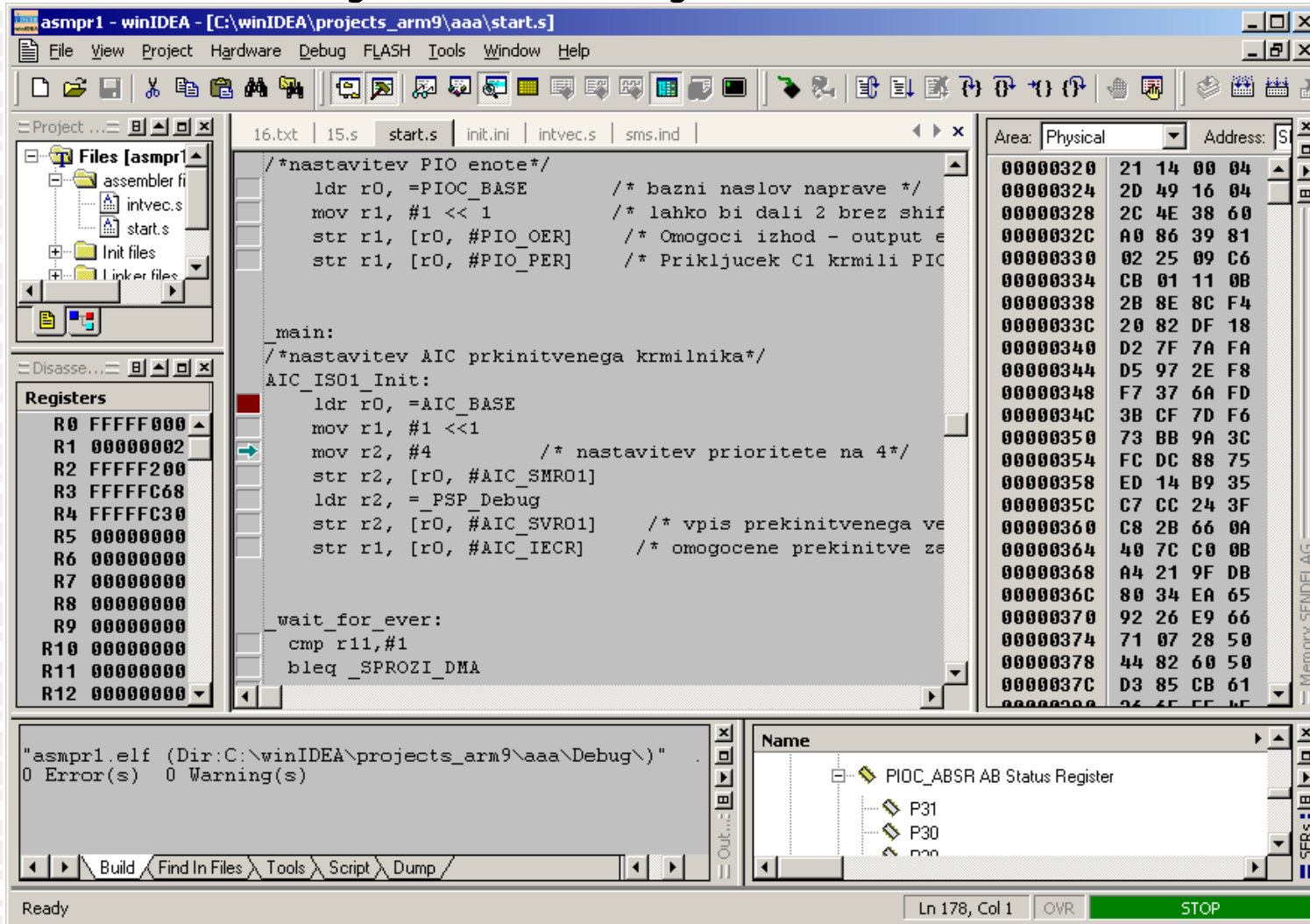
- **Programiranje v zbirnem jeziku ARM**
 - ponovitev, razširitev, nadgradnja
 - Prvo preverjanje
- **Vhodno izhodne naprave, FRI-SMS**
 - Paralelni vhod/izhod (PIO)
 - Časovniki (TC)
 - Zaporedni vmesnik (UART, DBGU)
 - Prekinitve, prekinitveni krmilnik (AIC) *
 - Zaključno preverjanje – januar

priključitev osnovnih V/I enot, osnove jezika C
- **2 obvezni in 2 neobvezni domači nalogi**
 - MiMo, ARM-Aplikacija, npr. oddajnik Morsejeve abecede
 - MiMo dodatki, ARM razširitve (aplikacija, senzorji)
- ***Seminar po dogovoru z asistentom***

Ocenjevanje

- Vaje prispevajo 50% h končni oceni in morajo biti opravljene:
 - uspešno oddane domače naloge (obvezni del),
 - preverjanja morajo biti vsaj 50% oz. 100 točk :
 - dve preverjanji (90 + 110)
 - možnih 200 točk
 - vsaj 100 točk na obeh skupaj
 - dodatno delo (neobvezne domače naloge, projekt, MiMo,...) se prišteje točkam iz preverjanj

Razvojno okolje WinIDEA



The screenshot displays the WinIDEA development environment with the following components:

- Project Explorer:** Shows a project named 'asmpr1' with subfolders for 'Files', 'Init files', and 'Linker files'.
- Registers:** A list of registers from R0 to R12, each with a hexadecimal value. R0 is 0xFFFF000, R1 is 0x0000002, R2 is 0xFFFF200, R3 is 0xFFFFC68, R4 is 0xFFFFC30, and R5 through R12 are 0x0000000.
- Code Editor:** Contains assembly code for a PIO and AIC initialization. Comments in Slovenian describe the hardware configuration. The code includes instructions like `ldr r0, =PIOC_BASE`, `mov r1, #1 << 1`, `str r1, [r0, #PIO_OER]`, and `wait_for_ever: cmp r11, #1`.
- Memory Dump:** A table showing memory addresses and their contents. The address range is from 00000320 to 0000037C. The dump shows various data values such as 21 14 00 04, 2D 49 16 04, etc.
- Output Window:** Shows the message: `"asmpr1.elf (Dir:C:\winIDEA\projects_arm9\aaa\Debug\)"` and `0 Error(s) 0 Warning(s)`.
- Hardware Monitor:** A panel at the bottom right showing a car icon and various status indicators like 'Ln 178, Col 1', 'OVR', and 'STOP'.



V drugem delu



AT91SAM9260

