

















Slide 9

	Example	
Slide 10	<pre>Example • How to compile the following? int main() {</pre>	
	(Sample program call-addproc.s.)	

<ul> <li>What does the following code do? i.e., what is in registers \$s0 and \$s after it executes?         <ul> <li>add \$s0, \$zero, \$zero</li> <li>addi \$s1, \$zero, 1</li> <li>addi \$s2, \$zero, 4</li> </ul> </li> <li>addi \$s0, \$s0, 1</li> <li>addi \$s1, \$s1, \$s1</li> <li>bro \$z0, \$z2, 11</li> </ul>	Minute Essay				
add \$s0, \$zero, \$zero addi \$s1, \$zero, 1 addi \$s2, \$zero, 4 11: addi \$s0, \$s0, 1 add \$s1, \$s1, \$s1 bro \$s0 \$s2 11	<ul> <li>What do after it ex</li> </ul>	es the followin kecutes?	g code doʻ	? i.e., what is in registers <code>\$s0</code> and <code>\$s1</code>	
addi \$s1, \$zero, 1 addi \$s2, \$zero, 4 11: addi \$s0, \$s0, 1 add \$s1, \$s1, \$s1 bro \$s0 \$s2 11		add	\$s0,	\$zero, \$zero	
addi \$s2, \$zero, 4 11: addi \$s0, \$s0, 1 add \$s1, \$s1, \$s1 bro \$s0 \$s2 11		addi	\$s1,	\$zero, 1	
<pre>11:     addi \$\$0, \$\$0, 1     add \$\$1, \$\$1, \$\$1     bpo \$\$2, 11</pre>		addi	\$s2,	\$zero, 4	
addi \$s0, \$s0, 1 add \$s1, \$s1, \$s1	11:				
add \$s1, \$s1, \$s1		addi	\$s0,	\$s0, 1	
$b_{DO}$ $\dot{s}_{CO}$ $\dot{s}_{CC}$ 11		add	\$s1,	\$s1, \$s1	
DIIE 750, 752, 11		bne	\$s0,	\$s2, 11	
		• What do after it ex	• What does the followin after it executes? add addi addi 11: addi add bne	Minu • What does the following code do' after it executes? addi \$\$0, addi \$\$1, addi \$\$2, 11: addi \$\$0, addi \$\$0, addi \$\$1, bne \$\$0,	

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