

Lecture 11

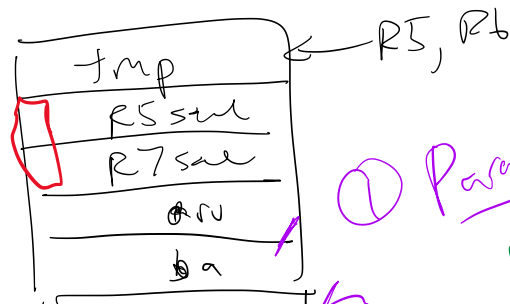
Tuesday, September 27, 2022 10:56 AM

B	x3026	x302A	ST	R0, x3051	
B	x3027	x300F	ST	R0, x3037	
B	x3028	x0001	.FILL	x01	
B	x3029	x0001	.FILL	x01	
B	x302A	x0001	.FILL	x01	
B	x302B	x302F	ST	R0, x305B	
B	x302C	x300F	ST	R0, x303C	
B	x302D	x0003	.FILL	x03	
B	x302E	x0002	.FILL	x02	
B	x302F	x0003	.FILL	x03	
B	x3030	x3034	ST	R0, x3065	
B	x3031	x300F	ST	R0, x3041	
B	x3032	x0006	.FILL	x06	
B	x3033	x0003	.FILL	x03	
B	x3034	x0006	.FILL	x06	
B	x3035	x0000	NOP		
B	x3036	x3002	ST	R0, x3039	
B	x3037	x000A	.FILL	'\n'	
B	STACK_START	x3038	x0004	.FILL	x04

R5 save
R7 save

} sum to (1)
sum to (2)
sum to (3)
sum to (4)

param
return value



① Param pushed R to L
printf's format string must be at that location



- ② Conceptually, func. call just pushes R0 on stack
- ③ book keeps info R5, R7 } "in order"

ST on compiler

$$\begin{array}{r}
 23 \\
 \times 41 \\
 \hline
 23 \\
 92 \\
 \hline
 943
 \end{array}$$

$$\begin{array}{r}
 1011010 \\
 \times 101001 \\
 \hline
 1011010 \\
 101101000 \\
 1011010000 \\
 10110100000 \\
 \hline
 1
 \end{array}$$