

Instruction	Change in register or stack or PC	Machine code	Address
sub \$sp,\$sp,8	PC = 400028 R29 [sp] = 7fff8ec	0x23bdfff8 addi \$29, \$29, -8	0x00400024
sw \$ra,0(\$sp)	PC = 40002c Stack: [7fff8ec] 00400018	0xafbf0000 sw \$31, 0(\$29)	0x00400028
li \$a0,4	PC = 400030 R4 [a0] = 4	0x34050004 ori \$4, \$0, 4	0x0040002c
li \$a1,3	PC = 400034 R5 [a1] = 3	0x34060003 ori \$5, \$0, 3	0x00400030
li \$a2,2	PC = 400038 R6 [a2] = 2	0x34060002 ori \$6, \$0, 2	0x00400034
li \$a3,1	PC = 40003c R7 [a3] = 1	0x34060001 ori \$7, \$0, 1	0x00400038
jal sum	PC = 40006c R31 [ra] = 400040	0x0c10001b jal 0x0040006c [sum]	0x0040003c
sub \$sp,\$sp,4	PC = 400070 R29 [sp] = 7fff8e8	0x23bdfffc addi \$29, \$29, -4	0x0040006c
sw \$s0,0(\$sp)	PC = 400074 Stack:[7fff8e8] 00000000 00400018	0xafb00000 sw \$16, 0(\$29)	0x00400070
add \$t0,\$a0,\$a1	PC = 400078 R8 [t0] = 7	0x00854020 add \$8, \$4, \$5	0x00400074
add \$t1,\$a2,\$a3	PC = 40007c R9 [t1] = 3	0x00c74820 add \$9, \$6, \$7	0x00400078
add \$s0,\$t0,\$t1	PC = 400080 R16 [s0] = a	0x01098020 add \$16, \$8, \$9	0x0040007c
add \$v0,\$s0,\$zero	PC = 400084 R2 [v0] = a	0x02001020 add \$2, \$16, \$0	0x00400080
lw \$s0,0(\$sp)	PC = 400088 R16 [s0] = 0	0x8fb00000 lw \$16, 0(\$29)	0x00400084
add \$sp,\$sp,4	PC = 40008c	0x23bd0004	0x00400088

	R29 [sp] = 7ffff8ec	addi \$29, \$29, 4	
jr \$ra	PC = 400040	0x03e00008 jr \$31	0x0040008c
sw \$v0,4(\$sp)	PC = 400044 Stack: [7ffff8ec] 00400018	0xafa20004 sw \$2, 4(\$29)	0x00400040
li \$v0,4	PC = 400048 R2 [v0] = 4	0x34020004 ori \$2, \$0, 4	0x00400044
la \$a0,str	PC = 40004c R1 [at] = 10010000	0x3c011001 lui \$1, 4097 [str]	0x00400048
	PC = 400050 R4 [a0] = 10010000	0x34240000 ori \$4, \$1, 0 [str]	0x40004c
syscall	PC = 400054 Console window: sum =	0x0000000c syscall	0x00400050
li \$v0,1	PC = 400058 R2 [v0] = 1	0x34020001 ori \$2, \$0, 1	0x00400054
lw \$a0,4(\$sp)	PC = 40005c R4 [a0] = a	0x8fa40004 lw \$4, 4(\$29)	0x00400058
syscall	PC = 400060 Console window: sum = 10	0x0000000c syscall	0x0040005c
lw \$ra,0(\$sp)	PC = 400064 R31 [ra] = 400018	0x8fbf0000 lw \$31, 0(\$29)	0x00400060
add \$sp,\$sp,8	PC = 400068 R29 [sp] = 7ffff8f4	0x23bd0008 addi \$29, \$29, 8	0x00400064
jr \$ra	PC = 400018	0x03e00008 jr \$31	0x00400068