
EECS 314

Computer Architecture

Spring 2018
Assignment Project Exam Help

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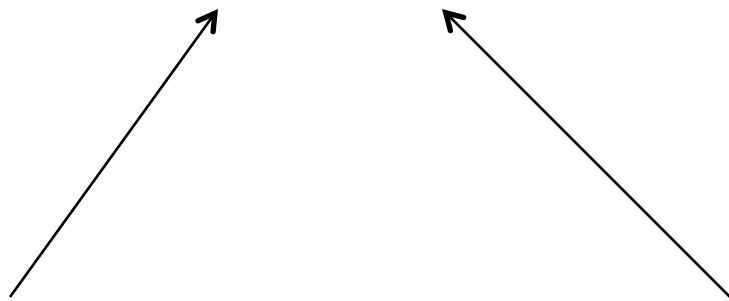
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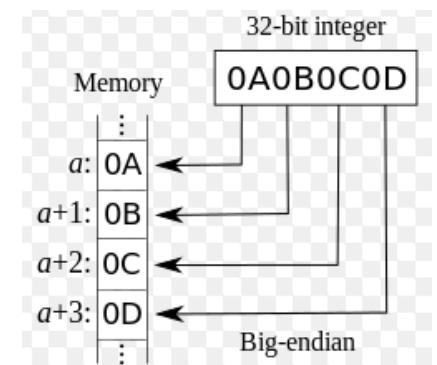
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Name	Register Number	Usage	Preserve on call?
\$zero	0	constant 0 (hardware)	n.a.
\$at	1	reserved for assembler	n.a.
\$v0 - \$v1	2-3	returned values	no
\$a0 - \$a3	4-7	arguments	yes
\$t0 - \$t7	8-15	temporaries	no
\$s0 - \$s7	16-23	saved values	yes
\$t8 - \$t9	24-25	temporaries	no
\$k0 - \$k1	26-27	reserved for OS kernel	n.a.
\$gp	28	global pointer	yes
\$sp	29	stack pointer	yes
\$fp	30	frame pointer	yes
\$ra	31	return addr	yes

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```
int leaf_example (int g, h, i, j)
{ int f;
  f = (g + h) - (i + j);
  return f;
}
```

Lecture 2
Slides 24



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e.g. $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$

```
int fact (int n)
{
    if (n < 1) return f;
    else return n * fact(n - 1);
}
```

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