

Link Register

```
uint64_t increment(uint64_t inc) {  
    return inc + 1;  
}
```

```
uint64_t main() {  
    uint64_t a;  
  
    a = 0  
    a = increment(a);  
  
    return a;  
}
```

The next **instruction**
that is linked is the
assignment into *a*!



Operating System Support

```
ecall
```

- This is not a standard machine instruction, but rather a **programmable instruction** that allows you to request services from the operating system. Also known as system call.
- The arguments that specify what action we need the OS to take are provided in \$a7.
- Selfies supports these ecalls: read, write, open, malloc, and exit.
- The implementation of each of these ecalls is in handleSystemCall().

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    a = 0
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    a = increment(a);
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    return a;
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}
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