

Scribe Notes

Thursday, October 24, 2013 2:41 PM

Calling convention: compiler matches functions to instructions. "Convention" because can be customized, non-standard

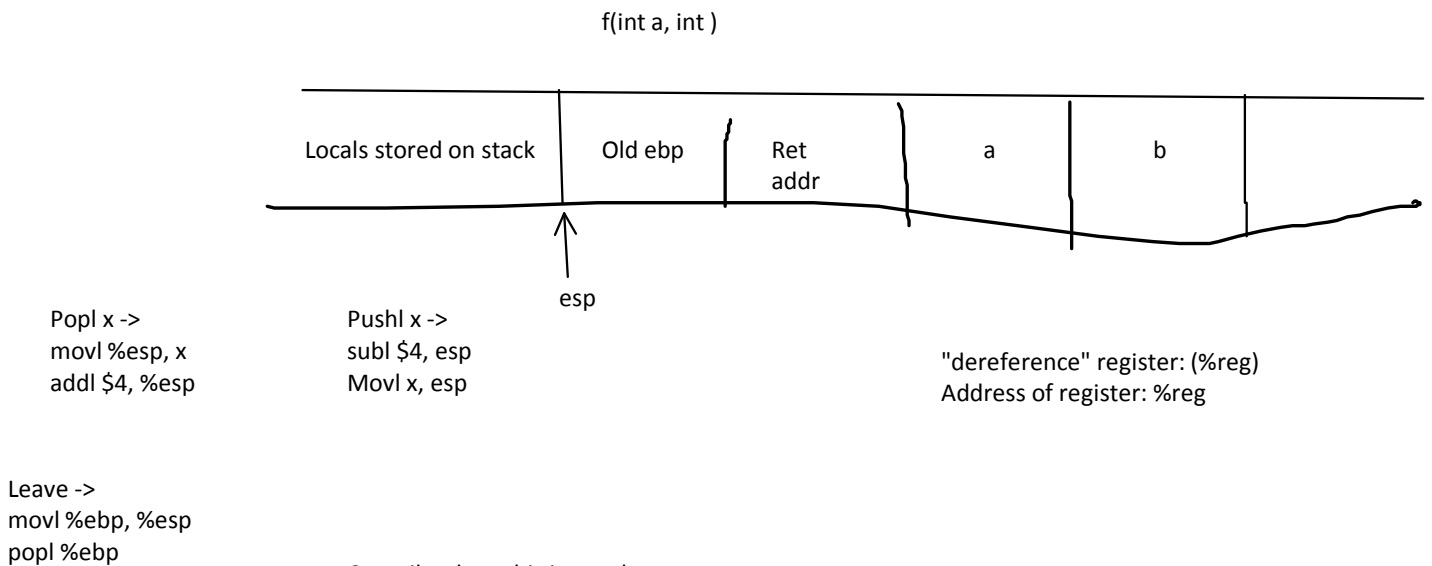
- Example: %eax is return value
- Example: Stack frames are 16 byte aligned
- Example: First argument is at 4(%esp) when function begins
- Example: Return address is stored at (%esp)

ebp: base pointer register. Boundary between params & locals. Does not change.

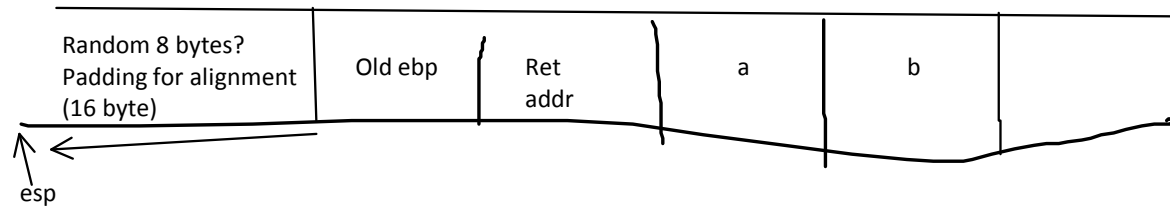
Callee Save Register: save old value on stack and restore the register if touched.

- Example: ebp, esp, ebx, esi, edi
- **Caller Save:** eax, edx

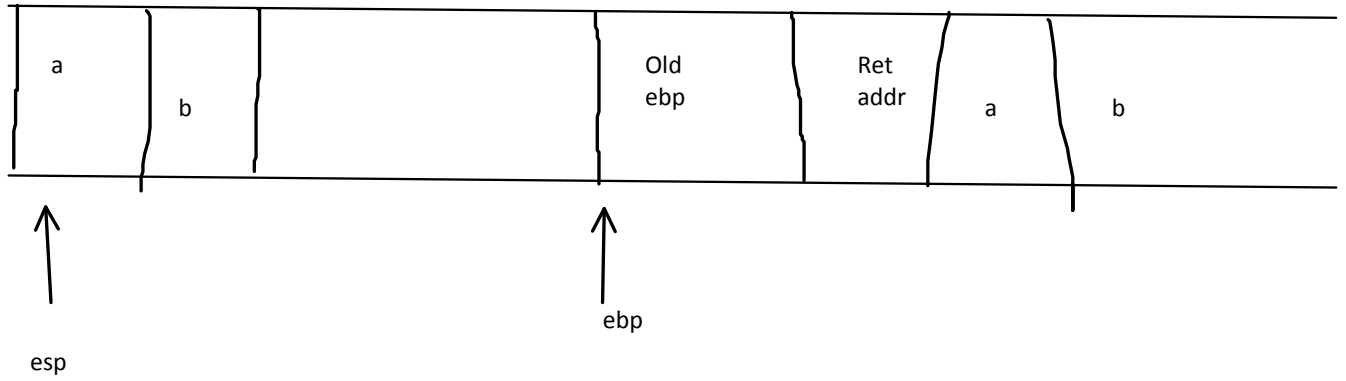
Pos offset off ebp is likely argument



Compiler does this instead:



F46:



`Movl(array, ??, size), destination`

`leal a, b`
moves addr of a into b (**L**oad **E**ffective **A**ddress)