

# C++ ABI: the only thing that is more important than performance

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```

1 int f(int x) {
2     return x * x;
3 }
4
5 extern "C" int g(int x) {
6     return x * x;
7 }

```

[godbolt.org/z/cj7bqx](http://godbolt.org/z/cj7bqx)

```

# g92 -O0
| _Zlfi:
1|     push rbp
1|     mov rbp, rsp
1|     mov DWORD PTR [rbp-4], edi
2|     mov eax, DWORD PTR [rbp-4]
2|     imul eax, eax
3|     pop rbp
3|     ret
|
5| g:
5|     push rbp
5|     mov rbp, rsp
5|     mov DWORD PTR [rbp-4], edi
6|     mov eax, DWORD PTR [rbp-4]
6|     imul eax, eax
7|     pop rbp
7|     ret

```

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