

Re: How to cast int to short

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2006-02/msg03204.html>

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Jon Skeet [C# MVP] wrote:

Derrick Coetzee [MSFT] <dcoetzee@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

```
myFun ((short)i);
```

Note that, by default, C# checks for integer overflow when performing a cast in this obvious way. [...]

No, by default C# *doesn't* check for overflow, except for compile-time constant expressions.

Sorry, my mistake – I'm used to this option being on. I do personally recommend that the /checked option (Build→Advanced→Check for arithmetic overflow/underflow) is always used, as this can help to find bugs and prevent potential security issues, as well as provide conceptual safety guarantees (and I think it should be on by default). If profiling reveals that they're slowing down a bottleneck, or if you want the C behaviour of arithmetic mod $2^{\text{word size}}$, you can always wrap the relevant code in unchecked { }. Thanks for the correction, Jon.

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