

Re: doubt on regarding stacks

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.c/2005-02/3551.html

From: DHOLLINGSWORTH2 (DHOLLINGSWORTH2_at_cox.net)

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"pmm" <muralipmanohar@hotmail.com> wrote in message
news:1109247536.492114.200430@o13g2000cwo.googlegroups.com...

>

> *dandelion* wrote:

>> "Richard Bos" <rlb@hoekstra-uitgeverij.nl> wrote in message

>> news:421dbcd8.68437036@news.individual.net...

>> > "pmm" <muralipmanohar@hotmail.com> wrote:

>> >

>> > > *Is there any way to know in which direction stack grows*

>> >

>> > *Not in ISO C. In fact, ISO C does not guarantee that you even*

> *_have_a*

>> > *stack as you understand that term.*

>>

>> *Correct, of course, but OTOH, you would have a pretty unusual*

> *platform if*

>> *you did not.*

>>

>> *One filthy trick you could employ (with all warnings set about*

>> *non-portability and compliance) is to*

>> *take the address of some local variable, call a function allocating*

> *another*

>> *local and take that address,too. Then a simple comparison of the*

> *addresses*

>> *would yield the direction in which the stack grows (assuming your*

> *compiler*

>> *does indeed have a stack and uses it).*

>>

>> *However, that falls into the "Filthy Tricks" department and you no*

>> *guarantees whatsoever that it will indeed work on your target*

> *platform.*

>>

>> *Usually consulting the documentation on your CPU/Compiler will yield*

> *more*

>> *reliable answers.*

>

> *Thanks for the reply*

comp.lang.c: Re: doubt on regarding stacks

- > *I sure did the above trick but I felt like a bad practice. I thought of*
- > *to have a better code so I posted into this group.*
- >
- > *plz let me know the correct concepts. please recommend any web pages*
- > *deals with the above concepts*
- > *thanks a lot*
- >

The correct method is to write to the hardware manufacturer, and request the data sheets for the processor your working with. (don't hesitate to get the info from the horses mouth.)

I can just about bet you that it grows away from the base:)