

---

Subject: What happened to long ints?

Posted by [tercero12](#) on Wed, 15 Mar 2006 17:19:42 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I have been using upp for a few weeks now for a school project. (Namely, to emulate a simple RISC processor in software at the register level.)

I quickly found out that upp sort of ignored implementing long ints when it implemented conversion functions and Values. In the mean time I wrote my own conversion functions but it would be supernice to have have to wrap every long I use in order to pass it to a function that takes a Value.

Am I missing something? Can a Value support a long? If I were to implement this functionality into UPP, would my code be accepted?

---

---

Subject: Re: What happened to long ints?

Posted by [mirek](#) on Wed, 15 Mar 2006 17:52:48 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

tercero12 wrote on Wed, 15 March 2006 12:19I have been using upp for a few weeks now for a school project. (Namely, to emulate a simple RISC processor in software at the register level.)

I quickly found out that upp sort of ignored implementing long ints when it implemented conversion functions and Values. In the mean time I wrote my own conversion functions but it would be supernice to have have to wrap every long I use in order to pass it to a function that takes a Value.

Am I missing something? Can a Value support a long? If I were to implement this functionality into UPP, would my code be accepted?

Well, it is true that number of fundamental types that can be directly stored into Value is deliberately limited to bool, int, double and int64.

In practice, however, the question is why do you need to store long int? If you just want to store 32-bit value, use "int" (typecast if you source contains long). In U++ int is required to have at least 32 bits. If you need 64, use int64.

Mirek

---

---

Subject: Re: What happened to long ints?

Posted by [tercero12](#) on Wed, 15 Mar 2006 18:35:16 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

luzr wrote on Wed, 15 March 2006 11:52

Well, it is true that number of fundamental types that can be directly stored into Value is

deliberately limited to bool, int, double and int64.

In practice, however, the question is why do you need to store long int? If you just want to store 32-bit value, use "int" (typecast if you source contains long). In U++ int is required to have at least 32 bits. If you need 64, use int64.

Mirek

I mentioned that I'm doing this for a school assignment. Part of the assignment is that the "computer" that we are emulating has 32-bit registers. This is fine and I could use ints or int64s but when I use EditInt, it just can't seem to handle  $2^{32}$  unique values. I guess this may be the real rub. Thoughts?

---

---

Subject: Re: What happened to long ints?  
Posted by [mirek](#) on Wed, 15 Mar 2006 18:58:08 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

tercero12 wrote on Wed, 15 March 2006 13:35luzr wrote on Wed, 15 March 2006 11:52  
Well, it is true that number of fundamental types that can be directly stored into Value is deliberately limited to bool, int, double and int64.

In practice, however, the question is why do you need to store long int? If you just want to store 32-bit value, use "int" (typecast if you source contains long). In U++ int is required to have at least 32 bits. If you need 64, use int64.

Mirek

I mentioned that I'm doing this for a school assignment. Part of the assignment is that the "computer" that we are emulating has 32-bit registers. This is fine and I could use ints or int64s but when I use EditInt, it just can't seem to handle  $2^{32}$  unique values. I guess this may be the real rub. Thoughts?

I see. You need unsigned, what you get is signed with Null, right?

I guess, the right solution is to define Convert using int64, limit it to unsigned 0- $2^{32}$  range, use its regular Null if needed. Use this Convert to customize your editfield (you can also learn it other useful things like hexadecimal syntax etc...)

Mirek

---

---

Subject: Re: What happened to long ints?  
Posted by [tercero12](#) on Wed, 15 Mar 2006 19:08:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

That sounds like it will work. Converts are a cool idea.

However, I don't understand how I could use it to customize an edit field. Can you help me out a little more here?

Thanks

---

---

Subject: Re: What happened to long ints?  
Posted by [mirek](#) on Wed, 15 Mar 2006 19:22:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

tercero12 wrote on Wed, 15 March 2006 14:08 That sounds like it will work. Converts are a cool idea.

However, I don't understand how I could use it to customize an edit field. Can you help me out a little more here?

Thanks

See reference/Convert.

Mirek

---

---

Subject: Re: What happened to long ints?  
Posted by [tercero12](#) on Wed, 15 Mar 2006 19:37:59 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Nevermind, I see the example convert code and it looks like it will work nicely.

---