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Subject: New rainbow web backend experiment: javascript terminal to U++

Posted by [mirek](#) on Sat, 28 Dec 2013 13:58:40 GMT

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I am now experimenting with HTML5 to U++ server backend.

The goal is to make any U++ application, possibly with minor tweaks, run on server controlled from browser. The target performance should be about as good as using windows application over terminal server.

I have some initial success, and right now (until it crashes you can see the result at:

<http://www.eventcraft.eu:8000>

Beware, there is so far no code to run separate sessions for users, everybody will see that same running process.

Only reasonable recent versions of Firefox and Chrome (and perhaps Safari) are supported. I doubt IE will ever be good enough...

Right now, latency is not very good, because I am using plain Ajax to communicate with server. I believe that going websockets should significantly improve the situation - I am working on that now.

Bandwidth seems to be minor issue even now, being at about 20KB/s, but I have a couple of ideas how to improve on that as well.

Finally, it might be quite a good idea to abandon canvas drawing and instead use WebGL. But that is less important....

If you want to see the code (or even collaborate), it is in

rainbow/WebWord

Mirek

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++

Posted by [dolik.rce](#) on Sat, 28 Dec 2013 15:53:01 GMT

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Wow, that's freaking awesome

Judging by what I saw before it stopped responding, it works quite well. Even on my slowish computer it is usable. All it needs is a nice chameleon skin to make it look more like a web app and less like Win98

Also, I'm under the impression that you run it under root user. That is probably not good idea, with

application that can read and write files to disk

Best regards,  
Honza

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [dolik.rce](#) on Sat, 28 Dec 2013 16:18:29 GMT

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PS:

mirek wrote on Sat, 28 December 2013 14:58Beware, there is so far no code to run separate sessions for users, everybody will see that same running process.

There are some rendering artifacts when another client interacts with the app. But apart from that it behaves just like any modern collaboration framework. So it is probably not a bug, it is a feature

Honza

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [mirek](#) on Sat, 28 Dec 2013 16:40:17 GMT

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dolik.rce wrote on Sat, 28 December 2013 10:53

Also, I'm under the impression that you run it under root user. That is probably not good idea, with application that can read and write files to disk

That is certainly something that have to be taken into account for real apps. But on that server it is no big deal, it will be wiped out soon anyway...

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [mirek](#) on Sat, 28 Dec 2013 17:45:20 GMT

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(just for info, websockets supports is being developed in uppdev/websockets).

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [Zbych](#) on Sun, 29 Dec 2013 16:46:51 GMT

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mirek wrote on Sat, 28 December 2013 18:45(just for info, websockets supports is being

developed in uppdev/websockets).

Is it going to be just WebSocket server, or maybe you have plans for websocket client as well?

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [Didier](#) on Sun, 29 Dec 2013 19:18:37 GMT

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This is very interesting !!

It opens the ability quickly make monitoring applications for embedded systems !  
It can come in very handy.

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [mirek](#) on Mon, 30 Dec 2013 09:50:48 GMT

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Zbych wrote on Sun, 29 December 2013 11:46

Is it going to be just WebSocket server, or maybe you have plans for websocket client as well?

Right now I believe I have server side working (I am going to move it to Core now and document, provide reference example).

Anyway, protocol seems to be quite symmetric, in fact the only thing required for client is to provide single method 'Call' (while server has 'Handshake').

Mirek

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [koldo](#) on Tue, 31 Dec 2013 09:33:08 GMT

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Sorry. From Firefox (last version) I can watch only a blue screen.

Is it necessary to change the configuration?

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++

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Posted by [dolik.rce](#) on Tue, 31 Dec 2013 10:05:59 GMT

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koldo wrote on Tue, 31 December 2013 10:33 Sorry. From Firefox (last version) I can watch only a blue screen.

Is it necessary to change the configuration?

I see the same from a Chrome browser where it worked previously... Looks like someone closed (or minimized or something) the UWord app, so we only see the "desktop" now

Honza

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [mirek](#) on Tue, 31 Dec 2013 15:47:43 GMT

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dolik.rce wrote on Tue, 31 December 2013 05:05 koldo wrote on Tue, 31 December 2013 10:33 Sorry. From Firefox (last version) I can watch only a blue screen.

Is it necessary to change the configuration?

I see the same from a Chrome browser where it worked previously... Looks like someone closed (or minimized or something) the UWord app, so we only see the "desktop" now

Honza

Well, it was just the first attempt. I hope to switch to websockets soon and then try to make more complete demo...

Mirek

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [mirek](#) on Sun, 19 Jan 2014 19:07:14 GMT

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After some more work, Turtle (as I have decided to name this) is now running using websockets and being capable of handling separate sessions. Try at

[www.evencraft.eu:8088](http://www.evencraft.eu:8088)

There is a lot of work to be done, but IMO it looks quite promising. I can imagine some applications to this

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [forlano](#) on Sun, 19 Jan 2014 21:56:02 GMT

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Simply Fantastic!

I am waiting to use it for my app.  
Thank you

Luigi

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [Didier](#) on Sun, 19 Jan 2014 22:28:31 GMT

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This is very impressive !

With a correct server, it will be fantastic !!!

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [koldo](#) on Mon, 20 Jan 2014 07:40:06 GMT

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Amazing!

I do not know what it is under the hood but, it is pretty.

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Subject: Re: New rainbow web backend experiment: javascript terminal to U++  
Posted by [Tom1](#) on Mon, 20 Jan 2014 08:40:48 GMT

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Thank you Mirek, this is absolutely magnificent! Running remote/embedded systems will be easier and better than ever before.

Best regards,

Tom

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