

Re: Best way to implement extremely heavy calculation?

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<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.aspnet/2006-04/msg01020.html>

- *From:* "Alex D." <alexware69@xxxxxxxxxxxx>
 - *Date:* Thu, 6 Apr 2006 15:45:59 -0400
-

I couldnt agree more.

"William Buchanan" <william.buchanan@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:O%23DKfBbWGHA.1220@xxxxxxxxxxxxxxxxxxxxxxxx

I think that the Javascript idea is a good one (at least well worth looking at). It would definately be the easiest to deploy.

The problem with all the other ideas is that you end up with loads of security restrictions which stop them from working. This leaves you with the problem of users needing to configure their browser properly. Also, with Java, you need to have the correct version of the Java Virtual Machine installed on the client. Off course they will also need to download the ActiveX / Java applet.

Will

"Alex D." <alexware69@xxxxxxxxxxxx> wrote in message news:%23ouMqWaWGHA.4580@xxxxxxxxxxxxxxxxxxxxxxxx

Well if you use Atlas I believe your calculations will still be runing in server side since atlas is an AJAX implementation for .NET. I think your optionas are activex, java applets, or exposing the source in a javascript class. You also can use a combination of things you want to hide from the user and things you can do in the client side things, so your cpu ussage will be diveiden between client and server. does that makes sense?

alex.

"roygon" <roygon@xxxxxxxx> wrote in message news:1144343145.026934.224980@xxxxxxxxxxxxxxxxxxxxxxxx

Thanks for the response. Perhaps "obviously" was not the correct wording given the description. The ten seconds of computing

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time is essentially at 100% CPU usage and there will be many requests per second. Additionally, server resources are a constraint. So, for the sake of discussion, let's say that running this calculation on the server is not an option.

I have briefly looked into smart clients but from what I have seen it does not achieve what I am looking for. I already have a windows client so for those people willing to download the application I already have a good, working solution. What I wanted for this web based implementation was broad access without a software download / installation. Almost all of my .NET development has been on traditional client applications so I'm not fully aware of all of my options.

I think I have three options but I am not sure if this is correct and if I fully understand the implications.

1) Build the app in Java – I believe that by doing this the user would essentially download the app within the browser and execute the appropriate code on their own PC without exposing the code itself. There would be a bit of a learning curve though for me here since I have minimal java experience and I don't believe I will be able to use my C# components although I could be wrong here.

2) Use Atlas – no idea if this is an option but it seems like there might be some facilities to run fairly complex code on the client side through an Atlas application.

3) Build the processing code into ActiveX components that are hosted on the page

Does anyone have feedback on what I think my options are

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and how
effective they might be and also, have I missed any obvious
choices?

Thanks,

Roy