

## Re: How do you figure out how much memory a class is using?

**Source:**

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.vb/2004-04/6156.html>

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**From:** Joe Fallon (*jfallon1\_at\_nospamtwcny.rr.com*)

**Date:** 04/29/04

Date: Thu, 29 Apr 2004 08:47:38 -0400

Jay,

That is very interesting.

Session, Viewstate, Cache, Application,

Can you elaborate on how you control these with some sample code?

I am sure it is not an "all or nothing" solution. You must be able to control a given variable (like my large collection) using any one of Session, Viewstate, Cache, Application. I would like to see how you do it so I don't go down the wrong path again!

Thanks for another good idea!

--

Joe Fallon

"Jay B. Harlow [MVP - Outlook]" <Jay\_Harlow\_MVP@msn.com> wrote in message news:uRivVYeLEHA.2716@tk2msftngp13.phx.gbl...

> Joe,

> > So instead of the normal 2 lines of code (1 to put the object into Session

> > and 1 to take it out)

> > I just wrap them in an If statement and check the flag.

> I hope you encapsulated your If in a property in a well known place.

>

> In fact I normally encapsulate all access to Session, Viewstate, Cache,

> Application, & etc variables in properties in a well known place. This

> allows a "single" point of change if I decide that Cache is better then

> Session for the variable...

>

> This well known place could either be a shared property of a domain class > (causes coupling to ASP.NET) or a base Page or Control class in ASP.NET. I

> normally go for the base Page or Control class, although the domain class

> makes its easier (the property is in a single place, verses two places).

> Note there are ways to mitigate the coupling to ASP.NET if you choose to put

> the property in the domain class...

>

> Hope this helps

> Jay

>

>

## microsoft.public.dotnet.languages.vb: Re: How do you figure out how much memory a class is using?

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>
> "Joe Fallon" <jfallon1@nospamtwny.rr.com> wrote in message
> news:uUKCEeZLEHA.628@TK2MSFTNGP11.phx.gbl...
> > Jay,
> > It helps a lot.
> >
> > I tried System.Runtime.InteropServices.Marshal.SizeOf on one of my
classes
> > and it failed.
> >
> > Now that I know it is basically "impossible" I can stop going down that
> > path.
> >
> > I decided to use a web.config appsetting flag for this.
> > When the flag is False then I use Session to store the collection.
> > When it is True, I will serialize the collection to disk instead.
> >
> > I only plan to do this for potentially large objects.
> > Smaller ones will be tossed into Session or Viewstate.
> >
> > So instead of the normal 2 lines of code (1 to put the object into
Session
> > and 1 to take it out)
> > I just wrap them in an If statement and check the flag.
> >
> > So by default, we will store things in Session, but in a pinch can move
> > large objects to disk and back.
> > I guess that is a workable approach.
> >
> > (My original goal was to dynamically test the size of the object and if
it
> > crossed a threshold to move it to disk.)
> >
> > Thanks for the help Jay!
> >
> > --
> > Joe Fallon
> > Access MVP
> >
> >
> > "Jay B. Harlow [MVP - Outlook]" <Jay_Harlow_MVP@msn.com> wrote in
message
> > news:uXAAVjYLEHA.2692@tk2msftngp13.phx.gbl...
> > > Joe,
> > > There is no way to get the size of a managed object per se.
> > >
> > > You could use System.Runtime.InteropServices.Marshal.SizeOf, however
> > this
> > > returns the size of the object when it is marshaled to the unmanaged
> > world,
> > > it does not report the true size of the object in the managed realm.
> > >
> > > Also I do not believe the Marshal.SizeOf method takes into account
> > > collection classes, you could use the enumerator of the class to get
the
> > > size of each element, unfortunately this will not give you a good idea
> > of
> > > any overhead in the management of the collection...
> > >
> > > Hope this helps
> > > Jay
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microsoft.public.dotnet.languages.vb: Re: How do you figure out how much memory a class is using?

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> > >
> > > "Joe Fallon" <jfallon1@nospamtwcny.rr.com> wrote in message
> > > news:OFEVVETLEHA.3548@TK2MSFTNGP10.phx.gbl...
> > > > I would like to know how you can figure out how much memory a given
> > > > instance
> > > > of a class is using.
> > > >
> > > > For example, if I load a collection class with 10 items it might use
> > > > 1KB,
> > > > and if I load it with 1000 items it might use 100KB.
> > > > How do I measure the amount of memory used once the class is loaded?
> > > >
> > > > Thanks!
> > > > --
> > > > Joe Fallon
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