

# vb6 COM+ out of memory client server issue

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- *From:* javigm@xxxxxxxxx
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Visual Basic 6  
Microsoft Active Data Objects 2.8 version 2.82.1830.0  
Component Services version 2001.12.4720.1830

Our application follows the standard Windows DNA architecture with ActiveX dlls and Windows forms deployed on a client tier and activeX dlls hosted in COM+ on remote server machines, all code is VB6. Our client is experiencing out of memory errors on their production and supporting environments which we have been unable to reproduce in any of the environments within our company.

The out of memory error appears to be raised outside of our code when the COM+ component (server side) has completed its work and is attempting to return the results to the calling component (on the client side). We have error logging within every method in our code and the server component does not log any error, after adding tracing to the code we could see that the server dll exits successfully and the error is reported by the line of code in the client that calls the server component.

The error does not happen constantly and works fine for a while but once it has been raised it is continually reported on every subsequent call to the same method until the application server is rebooted. When the error occurs different methods on the same server component can still be called successfully

The error reported is "Out of Memory – Run time error 7". The error is reported by the client callee code and is not logged on the server machine. Our code has error handlers in every method and these are logged to the application event log so it appears as though the error is being raised when trying to return from the method via COM+ to the calling code.

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Rebooting the application servers clears the error for a number of hours.

Having the COM+ dlls compiled with Unattended Execution and Retained In Memory options selected, this has no affect on the issue.