
Article

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Warning: Stale Persistent Objects created by \$THIS

tl;dr I have discovered that using \$THIS in a very specific way will make persistent objects go stale.

I found that it only happens when using \$get on an array that contains the OID reference of \$THIS. I assume that this is an unwanted feature and have raised a WRC. The problem can be recreated following the steps below, I have also posted the workaround that I am currently testing and looks to be working fine.

1. Create a persistent class...

```
Class Test.Store Extends %Persistent
{
```

```
Property SomeValue As %String;
```

```
Method SomeMethod()
{
    //this will cause $THIS to go stale in this process
    if $get(seen($THIS)) quit
}
```

```
ClassMethod Initialise() As %Status
{
    set store=..%New()
    set store.SomeValue=$zh
    quit store.%Save()
}
```

```
ClassMethod Update() As %Status
{
    set store=..%OpenId(1)
    set store.SomeValue=$zh
    quit store.%Save()
}
}
```

2. Open up a terminal and...

```
do ##class(Test.Store).Initialise()
```

3. Open a second terminal and...

```
set obj=##class(Test.Store).%OpenId(1)
zw obj
do obj.SomeMethod()
kill obj
```

Note, it's when calling SomeMethod() that this object will become stale.

4. In the first terminal...

```
do ##class(Test.Store).Update()
set obj=##class(Test.Store).%OpenId(1)
```

zw obj

5. In the second terminal...

```
set obj=##class(Test.Store).%OpenId(1)
```

zw obj

You will see that the second terminal still has a stale version of the persistent object.

These stale objects are also apparent in CSP sessions.

Workaround

Thanks to Timothy for a simpler workaround...

```
if $get(seen("$THIS"))
```

Appending an empty string prevents the side effect.

~~Instead of using the OID value of \$THIS directly, create a separate variable and create a stringy value of the OID...~~

```
set oid=$ig($THIS."%%OID",1)_"@"$ig($THIS."%%OID",2)
```

~~Using the oid variable instead of \$THIS makes the problem go away.~~

Sean.

[#Object Data Model](#) [#Terminal](#) [#Caché](#)

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