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文章

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[Open Exchange](#)

## 一个更有用的对象Object Dump

在测试你的代码时，你经常会遇到需要检查对象的实际内容。无论是使用 `ZWRITE` 还是 `$system.OBJ.Dump()`，

你会得到一个简单的属性图片，"--- 属性值---"

而 "--- swizzled references ---" 更容易让人混淆

用 "--- calculated references ---" 你只是被留在了后面。

```

self
SAMPLES>zw obj
obj=<OBJECT REFERENCE>[3@Sample.Employee]
+----- general information -----
|   oref value: 3
|   class name: Sample.Employee
|   %OID: $lb("104","Sample.Employee")
|   reference count: 2
+----- attribute values -----
|   %Concurrency = 1 <Set>
|   DOB = 46539
|   LB1 = ""
|   LB2 = ""
|   Multi = "MULTIdimensional"_$c(10)
|   Multi(1) = "top 1"
|   Multi(1,2) = "1:2"
|   Multi(1,4) = "1:4"
|   Multi(1,6) = "1:6"
|   Multi(3,2) = "3:2"
|   Multi(3,4) = "3:4"
|   Multi(3,6) = "3:6"
|   Multi(4) = "j=4"
|   Multi(6) = "j=6"
|   Name = "Nelson,Stuart A."
|   SSN = "284-23-8211"
|   Salary = 29126
|   Title = "Assistant Accounts Rep."
|   (priv) = ""
+----- swizzled references -----
|   i%AddrHist = ""
|   i%AddrHist("1999-01-01") = $lb($lb("4711 Main Street","Lexington","MS",70007))
|   i%AddrHist("2002-02-02") = $lb($lb("8332 Franklin Street","Boston","MS",70007))
|   i%AddrHist("2012-12-12") = $lb($lb("77 Sunset Strip","Hollywood","CA",10007))
|   r%AddrHist = "" <Set>
|   i%Company = 10 <Set>
|   r%Company = "" <Set>
|   i%FavoriteColors = ""
|   i%FavoriteColors(1) = "Purple"
|   i%FavoriteColors(2) = "Yellow"
|   r%FavoriteColors = "" <Set>
|   i%Home = $lb("1606 Franklin Drive","Albany","WA",73283) <Set>
|   r%Home = "" <Set>
|   i%Notes = 7 <Set>
|   r%Notes = "" <Set>
|   i%Office = $lb("4895 Main Place","Hialeah","MD",71283) <Set>
|   r%Office = "" <Set>
|   i%Picture = 8 <Set>
|   r%Picture = "" <Set>
|   i%Spouse = 106
|   r%Spouse = ""
+----- calculated references -----
|   Age <Get>
+-----
SAMPLES>

```

这个小的辅助类Z.obj 帮你将一个对象转储到终端，例如，在后台将一个对象转储到一些流中供以后查看。默认情况下，你只看到有内容的属性，

```
DO ##class(Z.obj).dumpToDevice(obj)
```

或者如果明确要求所有属性。

```
DO ##class(Z.obj).dumpToDevice(obj,1)
```

请看:

```
self
SAMPLES>do ##class(%Z.obj).dumpToDevice(obj)
%Concurrency.....: 1
AddrHist(1999-01-01).City....: Lexington
AddrHist(1999-01-01).State....: MS
AddrHist(1999-01-01).Street...: 4711 Main Street
AddrHist(1999-01-01).Zip.....: 70007
AddrHist(2002-02-02).City....: Boston
AddrHist(2002-02-02).State....: MS
AddrHist(2002-02-02).Street...: 8332 Franklin Street
AddrHist(2002-02-02).Zip.....: 70007
AddrHist(2012-12-12).City....: Hollywood
AddrHist(2012-12-12).State....: CA
AddrHist(2012-12-12).Street...: 77 Sunset Strip
AddrHist(2012-12-12).Zip.....: 10007
Age.....: 51
Company.%Concurrency.....: 1
Company.Active.....: 1
Company.Employees(1).....: 3@Sample.Employee
Company.Employees(2).....: 49@Sample.Employee
Company.Employees(3).....: 50@Sample.Employee
Company.Employees(4).....: 51@Sample.Employee
Company.Employees(5).....: 52@Sample.Employee
Company.Mission.....: Experts in open ISO 9003-ready devices and gaming for industry and academia.
Company.Name.....: HyperMatix Partners
Company.Revenue.....: 571961884
Company.TaxID.....: E5776
Company.myID.....: 10
DOB.....: 46539
FavoriteColors(1).....: Purple
FavoriteColors(2).....: Yellow
Home.City.....: Albany
Home.State.....: WA
Home.Street.....: 1606 Franklin Drive
Home.Zip.....: 73283
Multi.....: MULTIdimensional`$c(10)`
Multi(1).....: top 1
Multi(1,2).....: 1:2
Multi(1,4).....: 1:4
Multi(1,6).....: 1:6
Multi(3,2).....: 3:2
Multi(3,4).....: 3:4
Multi(3,6).....: 3:6
Multi(4).....: j=4
Multi(6).....: j=6
Name.....: Nelson,Stuart A.
Notes.%Location.....: ^Sample.PersonS
Notes.AtEnd.....: 0
Notes.Id.....: 7
Notes.LastModified.....: 2019-06-10 17:56:04
Notes.LineTerminator.....: ` $c(13)` ` $c(10)`
Notes.RemoveOnClose.....: 0
Notes.Size.....: 66
Office.City.....: Hialeah
Office.State.....: MD
Office.Street.....: 4895 Main Place
Office.Zip.....: 71283
Picture.%Location.....: ^Sample.PersonS
Picture.AtEnd.....: 0
Picture.Id.....: 8
Picture.LastModified.....: 2019-06-10 17:56:04
Picture.LineTerminator.....: ` $c(13)` ` $c(10)`
Picture.RemoveOnClose.....: 0
Picture.Size.....: 894
SSN.....: 284-23-8211
Salary.....: 29126
Spouse.....: reverse Reference ---> 67@Sample.Employee
Title.....: Assistant Accounts Rep.
```

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源

URL:

<https://cn.community.intersystems.com/post/%E4%B8%80%E4%B8%AA%E6%9B%B4%E6%9C%89%E7%94%A8%E7%9A%84%E5%AF%B9%E8%B1%A1object-dump>