
Subject: Re: HASH makes too many temporaries
Posted by [markb77](#) on Tue, 19 Mar 2013 08:55:10 GMT
[View Forum Message](#) <> [Reply to Message](#)

I would add to this that it is impossible to distinguish between scalars and arrays of HASH or LIST variables using the normal SIZE or ISA(/ARRAY) commands, as illustrated in the code below. Still waiting to hear from ITTVIS on the proper way to do this. Having to check the TYPENAME seems backwards.

pro test

```
a = hash('first', 1, 'second', 2)
b = hash('third', 3, 'fourth', 4, 'fifth', 5)

print, 'Output of SIZE() for a HASH variable:'
print, size(a, /STRUCTURE)

c = [a,b]
print, 'Output of SIZE() for an array of HASHes:'
print, size(c, /STRUCTURE)

print, 'Output of ISA(/ARRAY) for scalar hash:'
print, isa(a, /array)

print, 'Output of ISA(/ARRAY) for array of hashes:'
print, isa(c, /array)

help, a, output=ahelp
help, c, output=chelp

print, 'HELP for scalar hash:'
print, ahelp

print, 'HELP for array of hashes:'
print, chelp

print, 'TYPENAME for scalar hash:', typename(a)
print, 'TYPENAME for array of hashes:', typename(c)
```

end

```
Output of SIZE() for a HASH variable:
{ OBJREF      11      0      0      2
  1         2      0      0      0
  0         0      0      0
}
```

Output of SIZE() for an array of HASHes:

```
{ OBJREF    11    0    0    2
  1      2    0    0    0
  0      0    0    0
}
```

Output of ISA(/ARRAY) for scalar hash:

1

Output of ISA(/ARRAY) for array of hashes:

1

HELP for scalar hash:

A HASH <ID=1 NELEMENTS=2>

HELP for array of hashes:

C OBJREF = Array[2]

TYPENAME for scalar hash:HASH

TYPENAME for array of hashes:OBJREF
