Subject: Curiosity only: assigning array de-fragments memory?
Posted by MarioIncandenza on Tue, 13 Feb 2007 23:33:03 GMT
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Just saw this, and thought, huh. Given that fragmented memory is not much better than unavailable memory, maybe this is worth investigating. Watch what happens after I repeat the assignment:

```
IDL> help,mask,a_2004
MASK            UNDEFINED = <Undefined>
A_2004          FLOAT     = Array[360, 180, 1464]
IDL> memtest
    1048576  2146435072
Memory block # 1:  716 Mb (total:  716 Mb)
Memory block # 2:  185 Mb (total:  901 Mb)
Memory block # 3:  180 Mb (total: 1081 Mb)
Memory block # 4:  165 Mb (total: 1246 Mb)
Memory block # 5:   90 Mb (total: 1336 Mb)
IDL> mask=byte(a_2004*0)
IDL> memtest
    1048576  2146435072
Memory block # 1:  716 Mb (total:  716 Mb)
Memory block # 2:  185 Mb (total:  901 Mb)
Memory block # 3:  165 Mb (total: 1066 Mb)
Memory block # 4:   90 Mb (total: 1156 Mb)
Memory block # 5:   89 Mb (total: 1245 Mb)
IDL> mask=byte(a_2004*0)
IDL> memtest
    1048576  2146435072
Memory block # 1:  361 Mb (total:  361 Mb)
Memory block # 2:  264 Mb (total:  625 Mb)
Memory block # 3:  185 Mb (total:  810 Mb)
Memory block # 4:  180 Mb (total:  990 Mb)
Memory block # 5:  165 Mb (total: 1155 Mb)
Memory block # 6:   90 Mb (total: 1245 Mb)
IDL> mask=byte(a_2004*0)
IDL> memtest
    1048576  2146435072
Memory block # 1:  716 Mb (total:  716 Mb)
Memory block # 2:  185 Mb (total:  901 Mb)
Memory block # 3:  165 Mb (total: 1066 Mb)
Memory block # 4:   90 Mb (total: 1156 Mb)
Memory block # 5:   89 Mb (total: 1245 Mb)
```