
Subject: types (conflict)

Posted by [R.Bauer](#) on Sat, 01 Nov 2003 12:13:06 GMT

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Dear all
only for information

I recognized a lot of people don't know that there is a difference in coding
of double numbers.

```
a=[10.0D,20.0D,9999.9D]
print,a,format='(F20.10)
    10.0000000000
    20.0000000000
    9999.9000000000
```

Each number has to get the "D" sign in the definition, this is important.
Sometimes I see routines only first number is signed by "D" then the array
is in double but not all values are defined by the right precision.

```
a=[10.0D,20.0,9999.9]
print,a,format='(F20.10)
    10.0000000000
    20.0000000000
    9999.9003906250
```

The same with Make_Array,
b=make_array(value=9999.9D,3,/double)
print,b,format='(F20.10)
 9999.9000000000
 9999.9000000000
 9999.9000000000

If the "D" sign is missing:
b=make_array(value=9999.9,3,/double)
print,b,format='(F20.10)
 9999.9003906250
 9999.9003906250
 9999.9003906250

regards

Reimar

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<http://www.fz-juelich.de/icg/icg-i/>

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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html
