R""" Miscellaneous functions and values   1

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Created On : Mon Aug 24 00:09:36 1998
Last Modified By: Anders Andersen
Last Modified On: Fri Aug 20 10:37:49 1999
Status : Unknown, Use with caution!

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This module contains miscellaneous functions and values for the Open-ORB core platform. Some of the values
(see `defaultValues`) can be changed in the users $HOME/.pythonrc.py file.

Instances of `ErrorObject` are used to pass exceptions between capsules. The `OpenORBException` is the
super class of all exceptions introduced by the Open-ORB core. The `debug` function is used to print debug
information to `stderr` if the `DEBUG` value is true.

```
"""                                                                                            24
                                                                                               25
# Errors  and  exceptions                                                                      26
from traceback import extract_tb, print_exception                                              27
                                                                                               28
class ErrorObject:                                                                             29
    R"""Error object                                                                           30

    Used in exceptions sent (replied) to another capsule.

    """
    def __init__(self, exc=None, val=None, tb=None):                                           35
        self.exc = exc                                                                         36
        self.val = val                                                                         37
        self.tb = extract_tb(tb)                                                               38
        debug_exc(exc, val, tb)                                                                39
                                                                                               40
class OpenORBException(Exception):                                                             41
    R"""An Open ORB exception                                                                  42

    Alle exceptions or errors introduced in the core ORB are of this class or of a subclass of this class.

    """
    pass                                                                                       48
                                                                                               49
                                                                                               50
# Import user defined values (in $HOME/.pythonrc.py)                                           51
import user                                                                                    52
                                                                                               53
# The values below can be changed in the users .pythonrc.py                                    54
defaultValues = {"DEBUG": "0", "BUFSIZ": "1024",                                               55
                 "nsPort": "50198", "nmPort": "50199", "firstPort": "50200"}                   56
                                                                                               57
# User value with 'orb_' prefix from .pythonrc.py if they exist                                58
for (key, value) in defaultValues.items():                                                     59
    try:                                                                                       60
        exec(key + " = user.orb_" + key)                                                       61
    except AttributeError:                                                                     62
        exec(key + "=" + value)                                                                63
                                                                                               64
                                                                                               65
# Need sys to write to stderr in debug                                                         66
import sys                                                                                      67
                                                                                               68
def debug(str="", eol="\n"):                                                                   69
```

```
    R"""Print debug information                                                        70

    Prints debug information if the debug flag (DEBUG) is set.

    """
    if DEBUG:                                                                          76
        sys.stderr.write("%s%s" % (str,eol))                                           77
                                                                                       78
def debug_exc(exc, val, tb):                                                           79
    R"""Print exception information                                                    80

    Prints exception information if the debug flag (DEBUG) is set.

    """
    if DEBUG:                                                                          86
        print_exception(exc, val, tb)                                                  87
                                                                                       88
                                                                                       89
                                                                                       90
#   LocalWords:   Aug Oct UK NORUT aacodefont defaultValues pythonrc py stderr        91
#   LocalWords:   ErrorObject OpenORBException marshall unmarshall def init exc        92
#   LocalWords:   msg BUFSIZ nsPort nmPort firstPort AttributeError str cPickle        93
```