IGORE Installation Guide

IGORE Version 7.4

Gamma Ray Observatory
Oriented Scintillation Spectrometer Experiment

Naval Research Laboratory
Washington D. C.

NRL Document #0926-228
Release Date: May 22, 1998

Contents

1 SYSTEM REQUIREMENTS

Igore Version 7.4 requires a supported version of IDL and VMS Version 5.0 or later. Supported IDL versions 3.1.0 through 3.6.1. It has not been tested with versions later than 3.6.1.

The installation requires about 90,000 blocks of disk space peak, the run-time code and supporting files about 80,000 blocks.

The installation will require a user page file quota of at least 50,000, along with an equal or greater value for the sysgen parameter VIRTUALPAGECNT.

Igore makes extensive use of dynamic memory, so run-time memory requirements will vary. It is recommended that both user page file quotas (PGFLQUO) and system VIRTUALPAGECNT be set to 100,000 or more. In extreme cases, still higher values may be necessary. At the same time, pagefile sizes should be generous. Plan on 50,000 to 100,000 pages for each concurrent Igore user.

For best performance, user working set quotas, WSQUO and WSEXTENT, should be set as high as the system can support. The system parameter WSMAX should set correspondingly. Please consult the VMS documentation and carefully consider the possible side effects when modifying these parameters.

Both user and installer FILLM quotas should be 75 or greater. If you are installing the Response Matrix Building Tools, it will need to be at least 150 or greater.

IGORE requires about 90 process section table entries, therefore the sysgen parameter PROCSECTCNT should be set to at least 90. To allow for additional images to be merged, a value of 100 or higher is recommended.

2 INSTALLATION PROCEDURE

The installer should be using a privileged account, ideally the SYSTEM account. Before beginning the installation proper, the installer should execute the setup procedure for the version of IDL to be used with Igore.

The installation uses the VMSINSTAL procedure in SYS$UPDATE. Invoke the procedure as follows:

```
$ @SYS$UPDATE:VMSINSTAL
```

The standard VMSINSTAL prompts will be issued. It is not necessary to remove system users to perform the installation. Process quotas, aside from those described above, are not critical.

The installation procedure will prompt for the name of the disk to receive the Igore installation. It is definitely NOT recommended that Igore be installed on a system disk. The installation procedure will also prompt you to specify whether or not to delete the object code after the installation. Deleting the object code frees about 10,000 blocks of disk space.

The procedure will also prompt for the IDL version number. The version number must be entered using only the digits and decimal points, as in "3.1.0" or "3.6.1".

On non-OSSE nodes, the routine will prompt for installation of the Response Matrix building tools. These are automatically installed on all OSSE nodes.

The procedure will prompt to run the verification process, or allow you to run it at a later time. After these questions the installation will continue without further interaction.

3 SAMPLE INSTALLATION

```
OSSE$ @public_root:[public.idl_v31.bin]idl_setup
OSSE$ @sys$update:vmsinstal

VAX/VMS Software Product Installation Procedure V5.5-2


It is 9-MAR-1995 at 11:02.


Enter a question mark (?) at any time for help.

%VMSINSTAL-W-NOTSYSTEM, You are not logged in to the SYSTEM account.
%VMSINSTAL-W-ACTIVE, The following processes are still active:
DMFRCP
DMFACP
MOPS
_LTA70:
* Do you want to continue anyway [NO]? y
* Are you satisfied with the backup of your system disk [YES]?
```

```
* Where will the distribution volumes be mounted: DISK01:[JDA_SCRATCH]

Enter the products to be processed from the first distribution volume set.
* Products: igore
* Enter installation options you wish to use (none):

The following products will be processed:


  IGORE V7.4


Beginning installation of IGORE V7.4 at 11:03

%VMSINSTAL-I-RESTORE, Restoring product save set A ...

* What disk should receive the Igore distribution? [sys$sysdevice:]: DISK01

The IGORE installation procedure will create a directory
tree on the specified device. Approximately 90000 blocks
of disk space are required to build the IGORE distribution.

The object libraries required to build IGORE can be deleted
after the installation. The permanent run-time disk space
requirement is 80000 blocks.


* Do you want to delete the object code after the installation? [YES]?

* What version of IDL is installed? [ ]? 3.1.0

You can eithe run the verification routine as part of the installation
or wait until later.  IGR$IVP.COM is located at the top level of the new Igore.

* Run the verification routine (approx. 20 min.)? [YES]: n

Installation process will continue without further prompts...

Creating directory tree...
Restoring IGORE distribution save-sets...
```

```
%BACKUP-S-CREATED, created DISK01:[IGORE.INSTALL]IGR_LINK_SYS.COM;1
%BACKUP-S-CREATED, created DISK01:[IGORE.INSTALL]IGR_LINK_APP.COM;1
%BACKUP-S-CREATED, created DISK01:[IGORE.STRUC]STRUCT.COM;1
%BACKUP-S-CREATED, created DISK01:[IGORE.STRUC]USTRUCT.COM;1
Linking shareables for support modules...
Linking NAMELIST...
Linking SCANVARLIB...
Linking VT100LIB...
Linking ULIB...
Linking DECOMLIB...
Linking SDBLIB...
Linking FDBLIB...
Linking NEWIGL...
Linking PLOTSHARE...
Linking DUMP_TABLE...
Linking IGORE system with IDL Version 3.1.0
Linking shareable for IGORE$APPS_SDB...
Linking shareable for IGORE$APPS_FDB...
Linking shareable for IGORE$APPS_INTGRAPH...
Linking shareable for IGORE$APPS_MISC...
Linking shareable for IGORE$APPS_PDFTSF...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...
Installation of IGORE V7.4 completed at 11:17

Enter the products to be processed from the next distribution volume set.
* Products: <exit>

VMSINSTAL procedure done at 11:17
```

4 MOVING IGORE

This version of the Igore installation procedure will install the root of the Igore directory tree as a top level directory only. Igore cannot be installed into a subdirectory, but it can be renamed to a subdirectory after installation. For example:

```
$ RENAME 'disk-name':[000000]IGORE.DIR [PUBLIC]IGORE_V74.DIR
```

5 RUNNING IGORE

To run Igore, it is necessary to have IDL logicals defined. Your site may do this on a system-wide basis, otherwise you will have to perform this step explicitly. See your IDL documentation for further details.

Igore itself requires a setup procedure. The procedure is invoked as follows:

```
   ! ... by default,

$ @'disk-name':[IGORE]INIT_IGORE

   ! ... or if Igore has been moved as described above,

$ @'disk-name':['directory_spec']INIT_IGORE
```

where 'disk-name' is the name of the disk containing the Igore distribution, and 'directory_spec' specifies the directory containing the procedure. This command can be placed in a LOGIN.COM file or in the SYLOGIN file for convenience.

After the setup, Igore is invoked by:

```
$ IGORE
```