VHmakegroup

```
int32 VHmakegroup(int32 file_id, int32 tag_array[], int32 ref_array[],
          int32 n_objects, char *vgroup_name, char *vgroup_class)
```

file_id	IN:	HDF file identifier returned by **Hopen**
tag_array	IN:	Array of HDF tags to store
ref_array	IN:	Array of HDF reference numbers to store
n_objects	IN:	Number of data objects to store
vgroup_name	IN:	Name of the Vgroup to create
vgroup_class	IN:	Class of the Vgroup to create

Purpose
A high-level method to group a collection of data objects into a Vgroup.

Return Value
Reference numbers of newly created Vgroup if successful, `FAIL(-1)` otherwise.

Description
This routine creates a new Vgroup named *vgroup_name* of class *vgroup_class* in the HDF file *file_id*. The *tag_array* and *ref_array* are matched arrays of *n_objects* containing the tags and reference numbers to be added to the new Vgroup. A matched array in this case means that *tag_array[0]* and *ref_array[0]* refer to one data object, and *tag_array[1]* and *ref_array[1]* to another, etc.

Because **Vstart** initialize the VH interface, it must precede calls to **VHmakegroup**. It is not necessary, however, to call **Vattach** or **Vdetach** in conjunction with **VHmakegroup**.

FORTRAN
None

VHstoredata

```
int32 VHstoredata(int32 file_id, char *fieldname, uint8 buf[], int32 n_records,
          int32 num_type, char *vdata_name, char *vdata_class)
```

file_id	IN:	HDF file identifier returned by **Hopen**
fieldname	IN:	Field name for the new Vdata
buf	IN:	Buffer the records are read from
n_records	IN:	Number of records to store
num_type	IN:	Number type for the field in each record
vdata_name	IN:	Name of the Vdata created
vdata_class	IN:	Class of the Vdata created

Purpose A high-level method for creating Vdatas containing records limited to one field with one component per field.

Return Value Reference number of newly created Vdata if successful, `FAIL(-1)` otherwise

Description This routines provides a high-level method for creating single-order, single-field Vdatas. It creates a Vdata named *vdata_name* of class *vdata_class* in the HDF file referenced by *file_id*. The number type of the field is specified by *num_type* and *n_records* of data from *buf* are stored with a field name specified by *fieldname*.

Because **Vstart** initialize the VH interface, it must preced **VHstoredata**. It is not necessary, however, to call **Vattach** or **Vdetach** in conjunction with **VHstoredata**.

FORTRAN None

VHstoredatam

```
int32 VHstoredatam(int32 file_id, char *fieldname, uint8 buf[], int32 n_records,
          int32 num_type, char *vdata_name, char *vdata_class, int32 order)
```

file_id	IN:	HDF file identifier returned by **Hopen**
fieldname	IN:	Field name for the new Vdata
buf	IN:	Buffer the records are read from
n_records	IN:	Number of records to store
num_type	IN:	Number type of data elements
vdata_name	IN:	Name of the Vdata created
vdata_class	IN:	Class of the Vdata created
order	IN:	The number of components (data values) per field

Purpose

A high-level method for creating Vdatas containing records with one field containing one or more components.

Return Value

Reference number of newly created Vdata if successful, `FAIL(-1)` otherwise

Description

This routines provides a high-level method for creating multi-order, single-field Vdatas. It creates a Vdata named *vdata_name* of class *vdata_class* in the HDF file referenced by *file_id*. The number type of the Vdata and all its components is specified by *num_type* and *n_records* of data from *buf* are stored with a field name specified by *fieldname*. The *order* of the Vdata indicates the number of data values stored per field.

Because **Vstart** initialize the VH interface, it must precede **VHstoredatam**. It is not necessary, however, to call **Vattach** or **Vdetach** in conjunction with **VHstoredatam**.

FORTRAN

None