VHmakegroup/vhfmkgp

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

file_id	IN:	File identifier returned by **Hopen**
tag_array	IN:	Array of tags to be stored
ref_array	IN:	Array of reference numbers to be stored
n_objects	IN:	Number of data objects to be stored
vgroup_name	IN:	Name of the vgroup to be created
vgroup_class	IN:	Class of the vgroup to be created

Purpose Groups a collection of data objects within a vgroup.

Return value Reference number of newly-created vgroup if successful, `FAIL` (or `-1`) otherwise.

Description This routine creates a new vgroup named *vgroup_name* of class *vgroup_class* in the HDF file specified by *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** initializes the VH interface, it must precede calls to **VHmakegroup**. It is not necessary, however, to call **Vattach** or **Vdetach** in conjunction with **VHmakegroup**.

FORTRAN

```
integer function vhfmkgp(file_id, tag_array, ref_array,
                         n_objects, vgroup_name, vgroup_class)

integer file_id, n_objects
character* (*) vgroup_name, vgroup_class
integer tag_array(*), ref_array(*)
```

VHstoredata/vhfsd/vhfscd

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

file_id	IN:	File identifier returned by **Hopen**
fieldname	IN:	Field name for the new vdata
buf	IN:	Buffer the records to be read
n_records	IN:	Number of records to be stored
data_type	IN:	Data type for the field in each record
vdata_name	IN:	Name of the vdata to be created
vdata_class	IN	Class of the vdata to be created

Purpose Creating vdatas containing records limited to one field with one component per field.

Return value Reference number of newly-created vdata if successful, `FAIL` (or `-1`) otherwise

Description This routine 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 data type of the field is specified by *data_type* and *n_records* of data from buf are stored with a field name specified by *fieldname*.

Because **Vstart** initializes the VH interface, it must precede **VHstoredata**. It is not necessary, however, to call **VSattach** or **VSdetach** in conjunction with **VHstoredata**.

Note that there are two Fortran-77 versions of this routine; one for buffered numeric data (**vhfsd**) and the other for buffered character data (**vhfsdc**).

FORTRAN

```
integer function vhfsd(file_id, fieldname, buf, n_records,
                        data_type, vdata_name, vdata_class)

integer file_id, n_records, data_type
character* (*) access, vdata_name, vdata_class
<valid numeric data type> buf(*)

integer function vhfscd(file_id, fieldname, buf, n_records,
                        data_type, vdata_name, vdata_class)

integer file_id, n_records, data_type
character* (*) access, vdata_name, vdata_class
```

```
character* (*) buf
```

VHstoredatam/vhfsdm/vhfscdm

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

file_id	IN:	File identifier returned by **Hopen**
fieldname	IN:	Field name for the new vdata
buf	IN:	Buffer the records are to be read from
n_records	IN:	Number of records to be stored
data_type	IN:	Data type of data elements
vdata_name	IN:	Name of the vdata to be created
vdata_class	IN:	Class of the vdata to be created
order	IN:	Number of components per field

Purpose Creates vdatas containing records with one field containing one or more components.

Return value Reference number of the newly-created vdata if successful, `FAIL` (or `-1`) otherwise

Description This routine 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 data type of the vdata and all its components is specified by *data_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** initializes the VH interface, it must precede **VHstoredatam**. It is not necessary, however, to call **VSattach** or **VSdetach** in conjunction with **VHstoredatam**.

Note that there are two Fortran-77 versions of this routine; one for buffered numeric data (**vhfsdm**) and the other for buffered character data (**vhfscdm**).

FORTRAN

```
integer function vhfsdm(file_id, fieldname, buf, n_records,
                        data_type, vdata_name, vdata_class
                         order)

integer file_id, n_records, data_type, order
character* (*) access, vdata_name, vdata_class
<valid numeric data type> buf(*)

integer function vhfscdm(file_id, fieldname, buf, n_records,
```

```
                          data_type, vdata_name, vdata_class
                          order)

integer file_id, n_records, data_type, order
character* (*) access, vdata_name, vdata_class
character* (*) buf
```