

VHmakegroup/vhfmkgp

VHmakegroup/vhfmkgp

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

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

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

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

VHstoredata/vhfsd/vhfsd

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)
```

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

Purpose	Creates vdats containing records with one field containing one or more components.
Return value	Reference number of the newly-created vdata if successful, <code>FAIL</code> (or <code>-1</code>) otherwise
Description	This routine provides a high-level method for creating multi-order, single-field vdats. It creates a vdata named <i>vdata_name</i> of class <i>vdata_class</i> in the HDF file referenced by <i>file_id</i> . The data type of the vdata and all its components is specified by <i>data_type</i> and <i>n_records</i> of data from <i>buf</i> are stored with a field name specified by <i>fieldname</i> . 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	<pre>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,</pre>
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VHstoredatam/vhfsdm/vhfsdm

```
data_type, vdata_name, vdata_class  
order)
```

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