
Subject: Re: HDF attribute extract

Posted by peter.albert@gmx.de on Thu, 05 Jan 2006 14:58:23 GMT

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Hi Sheldon, :-)

without the possibility to easily check, but the `loc_id` in the call to `H5A_OPEN` should be "An integer representing the identifier of the group, dataset, or named datatype containing the attribute within." So there must at least be one call `H5D_OPEN` before it to receive a valid ID of an object which can contain attributes. In your example, `loc_id` is the file ID, and the file itself seems not to carry any attributes. BTW, are you sure that `satellite_id` is in fact an attribute and not a dataset? Have you just tried the good old `READ_HDF` routine?

Cheers,

Peter

Subject: Re: HDF attribute extract

Posted by [Liberum](#) on Thu, 05 Jan 2006 15:24:03 GMT

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Hi Peter,

Good to see that you are still around. I am pretty sure that the `satellite_id` is an attribute. The `hdf_parse` showed this and `hdf_browser` showed this as well. These attributes are located on the same level as that dataset for the cloudmask. `H5dump` gives:

```
HDF5 "CFCin2004123121091300700125010D.hdf" {
```

```
GROUP "/" {
```

```
  ATTRIBUTE "version" {
```

```
    DATATYPE H5T_STRING {
```

```
      STRSIZE 19;
```

```
      STRPAD H5T_STR_NULLTERM;
```

```
      CSET H5T_CSET_ASCII;
```

```
      CTYPE H5T_C_S1;
```

```
    }
```

```
  DATASPACE SCALAR
```

```
}
```

```
  ATTRIBUTE "description" {
```

```
    DATATYPE H5T_STRING {
```

```
      STRSIZE 128;
```

```
      STRPAD H5T_STR_NULLTERM;
```

```
      CSET H5T_CSET_ASCII;
```

```
      CTYPE H5T_C_S1;
```

```
    }
```

```
DATASPACE SCALAR
}
ATTRIBUTE "satellite_id" {
  DATATYPE H5T_STRING {
    STRSIZE 7;
    STRPAD H5T_STR_NULLTERM;
    CSET H5T_CSET_ASCII;
    CTYPE H5T_C_S1;
  }
}
```

I thought this was very simple and I looked at your READ_HDF program but it seemed like using an elephant gun to kill an ant. Now this ant seems like an elephant. I am pretty sure it is an attribute. I have tried just opening the file and then using H5A_READ/H5D_READ but to no avail. Logically or otherwise, I am issuing something. I will look at the READ_HDF now if you cannot no other suggestions.

Thanks,
Sheldon

Subject: Re: HDF attribute extract
Posted by [Liberum](#) on Thu, 05 Jan 2006 15:50:29 GMT
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Thanks Peter,
I got it - and the answer lied, indeed, in read_hdf.
I had to used h5g_open(file_id, '/')
and then get the number of attributes and then names.
Thanks.
Hope the new job is all that it promised to be.
