MOMA C++ Mining Scripts

Introduction

The MOMA C++ mining scripts are command-line tools built on top of MOMA Data View code.

The primary purpose of these scripts is to extract data into a XINA Online-friendly format. They currently live in mine699.gsfc.nasa.gov in the /home/mpallone/cpp-playground directory (although I intend to move them into /usr/local/bin as soon as I can get permission...):

If running these executables on mine699, be sure to be logged in as a user whose momagse directory is configured and up to date, such as the 'moma' user.

Housekeeping mining script

Absolute filename: /home/mpallone/cpp-playground/extract_hk_data_main

From the file's header comment:

```
/**
 *
 * @file   extract_hk_data_mainclass.cpp
 * @author Mark Pallone
 * @date   December, 2015
 *
 * A script to extract HK data from a TMFile in order to populate XINA online
 * databases.
 *
 * Data will be written to the specified output directory with the preferred
 * XINA format. That is, one datapoint per line as follows:
 *
 *     utc time,fsw time,relative time,hkid,science value
 *
 * Note that times will be in microseconds, not seconds, unless the --seconds
 * flag is used.
 *
 * The name of the output file will be:
 *
 *     <tid_number>{=html}_hk_data.csv
```

```
*
* Example usage:
*
*     ./extract_hk_data_main  --infile <full path to tm.mom file>
*                             --outdir <full path to output directory>{=html}
*                             --hkids 1,2,5-10,15-20  --dhkids 30-50,55
*
* HKIDs listed immediately after the --hkids flag will have *all* of their
* values stored.
*
* Delta HKIDs listed next to the --dhkids flag will have their initial value
* stored, and subsequent values will only be stored if they differ from the
* previous value for that particular HKID.
*
* One or both of --hkids, --dhkids must be specified.
*/
```

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