How to download a Topcon GB-1000 receiver using lftp

489 Beth Bartel September 9, 2009 Application Notes 2765

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Use the following script utilizing lftp to download data off the internal memory of a Topcon GB-1000 receiver. This script uses lftp's ability to mirror two directories.

```
# Script to mirror the internal memory
# of a Topcon GB-1000 to a local directory.
# File download is quite fast: takes about 82seconds
# for a daily 1second file.
#
# Setup:
# Set your ethernet port on your computer to have IP: 192.168.1.3
# and Subnet-Mask: 255.255.255.0. Then connect an ethernet
# cable from your computer to the GB-1000.
#
# Use:
# user@linux> ./ftp_download <dir-to-downlaod-to>
#
# Example:
# user@linux> ./ftp_downlaod site1
# ( will download data to ./site1/ )
#
# If the local directory does not exist lftp will
# create.
#
# Behavior of script if you run it more than once
# against the same local direcotry:
#
# 1) matching files are skipped and nothing is done.
# 2) if a new file is on the GB-1000 that is not on the
#    local directory it is copied over.
# 3) if there is a difference between a file on the GB-1000
#    and on the local direcotry (possibly because you have
#    previously downloaded a partial file and now the file is
#    bigger) the script will delete the smaller local file and
#    replace it with the new larger file.
#
# Note: If you kill the script while it is running with ctrl-c
#    make sure to run:
#
#    user@linux> rm -f lftp_download_cmds.x
```

```
#
#    to clear the file containing lftp commands generated by the
#    script. The file is deleted after a successful execuation
#    of the script.



#! /bin/bash

# Constants needed.
HOST='192.168.1.2'                    # IP of GB-1000
SITE=$1                               # dwnld dir specifed at run time
USER=''                               # user name
PASSWD='TOPCON'                       # GB-1000 password
CMD_FILE="./lftp_download_cmds.x"     # file contaning lftp commands

# Can't run if you don't specify a directory to download to.
if [ "$SITE" = "" ]; then
   echo "You must specify a download directory. "
   exit 1

else
   # Commands to be fed into lftp.
   echo "open -u $USER,$PASSWD $HOST"    >> $CMD_FILE;
   echo "mirror -e --verbose=3 / test/"  >> $CMD_FILE;

   # Run lftp with the command file created above.
   lftp -f $CMD_FILE

   # Clean up, delete lftp_download_cmds.x file.
   rm -f $CMD_FILE
fi
```

Online URL:
https://kb.unavco.org/article/how-to-download-a-topcon-gb-1000-receiver-using-lftp-489.html