A.4 CONVBIN

SYNOPSIS

DESCRIPTION

Convert RTCM, receiver raw data log and RINEX file to RINEX and SBAS/LEX message file. SBAS message file complies with RTKLIB SBAS/LEX message format. It supports the following messages or files.

RTCM 2 : Type 1, 3, 9, 14, 16, 17, 18, 19, 22

RTCM 3 : Type 1002, 1004, 1005, 1006, 1010, 1012, 1019, 1020

Type 1071-1127 (MSM except for compact msg)

NovAtel OEMV/4/6,OEMStar: RANGECMPB, RANGEB, RAWEPHEMB, IONUTCB, RAWWASSFRAMEB

NovAtel OEM3 : RGEB, REGD, REPB, FRMB, IONB, UTCB

u-blox LEA-4T/5T/6T : RXM-RAW, RXM-SFRB

NovAtel Superstar II : ID#20, ID#21, ID#22, ID#23, ID#67
Hemisphere : BIN76, BIN80, BIN94, BIN95, BIN96

SkyTraq S1315F : msg0xDD, msg0xE0, msg0xDC

GW10 : msg0x08, msg0x03, msg0x27, msg0x20

Javad : [R*],[r*],[*R],[*r],[P*],[p*],[*P],[*p],[D*],[*d],

[E*],[*E],[F*],[TC],[GE],[NE],[EN],[QE],[UO],[IO],

[WD]

NVS : NVS NV08C BINR

BINEX : big-endian, regular CRC, forward record (0xE2)

 $0 \\ x \\ 01 \\ -01, 0 \\ x \\ 01 \\ -02, 0 \\ x \\ 01 \\ -03, 0 \\ x \\ 01 \\ -04, 0 \\ x \\ 01 \\ -06, 0 \\ x \\ 7f \\ -05$

RINEX : OBS, NAV, GNAV, HNAV, LNAV, QNAV

OPTIONS

file input receiver binary log file
-ts y/m/d h:m:s start time [all]
-te y/m/d h:m:s end time [all]

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-tr y/m/d h:m:s approximated time for rtcm messages
-ti tint observation data interval (s) [all]
-r format log format type
         rtcm2= RTCM 2
         rtcm3= RTCM 3
         nov = NovAtel OEMV/4/6,OEMStar
         oem3 = NovAtel OEM3
         ubx = ublox LEA-4T/5T/6T
         ss2 = NovAtel Superstar II
         hemis= Hemisphere Eclipse/Crescent
          stq = SkyTraq S1315F
          javad= Javad
         nvs = NVS BINR
         binex= BINEX
         rinex= RINEX
-ro opt receiver options
-f freq number of frequencies [2]
-hc comment rinex header: comment line
-hm marker rinex header: marker name
-hn markno rinex header: marker number
-ht marktype rinex header: marker type
-ho observ rinex header: observer name and agency separated by /
-hr rec
          rinex header: receiver number, type and version separated by /
-ha ant
            rinex header: antenna number and type separated by /
-hp pos
            rinex header: approx position x/y/z separated by /
-hd delta
            rinex header: antenna delta h/e/n separated by /
-v ver
         rinex version [2.11]
         include doppler frequency in rinex obs [off]
-od
         include snr in rinex obs [off]
-os
         include iono correction in rinex nav header [off]
-oi
         include time correction in rinex nav header [off]
-ot
         include leap seconds in rinex nav header [off]
-ol
-x sat
         exclude satellite
         exclude systems (G:GPS,R:GLO,E:Galileo,J:QZSS,S:SBAS,C:BeiDou)
-y sys
-d dir
         output directory [same as input file]
-c staid use RINEX file name convention with staid [off]
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-o ofile output RINEX OBS file
-n nfile output RINEX NAV file
-g gfile output RINEX GNAV file
-h hfile output RINEX HNAV file
-q qfile output RINEX QNAV file
-l lfile output RINEX LNAV file
-s sfile output SBAS message file
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If any output file specified, default output files (<file>.obs, <file>.nav, <file>.gnav, <file>.hnav, <file>.qnav, <file>.lnav and <file>.sbs) are used.

If receiver type is not specified, type is recognized by the input file extension as follows.

- *.rtcm2 RTCM 2 *.rtcm3 RTCM 3 *.gps NovAtel OEMV/4/6,OEMStar *.ubx u-blox LEA-4T/5T/6T *.log NovAtel Superstar II *.bin Hemisphere Eclipse/Crescent *.stq SkyTraq S1315F *.jps Javad
- *.bnx,*binex BINEX
 .obs,.*o RINEX OBS