

Memo

To: Record
From: John Gipson
Date: January 27, 1999
Re: denut

The program *denut* requests an input file name and an output filename. The input file must be in EOPLxx format. It processes this file one experiment at a time. For each experiment it fits for a retrograde diurnal term in polar motion. It removes this from the data, and writes the results out to the new file.

This is necessary because retrograde diurnal polar motion is degenerate with nutation. If you estimate HF-EOP with nutation on, you will get a large retrograde diurnal PM term. On the other hand, if you turn off nutation adjustments, then any nutation offsets will go directly into PM. The usual processing is to turn off nutation. Any nutation offset that changes PM is removed after the fact by *denut*. Hence *denut* de-nutates the PM estimates.

Source: leo://users/jmg/utls/denut.