

Modifications and Required Changes from Previous AdH Input Formats and Expected Simulation Differences (Version 4.202)

- A bug fix has been made to the friction specification such that the equations are unitless. This should not be noticeable in your solutions.
- A bug fix has been made to the transport concentration computation to ensure the stability for wet/dry elements is coded the same for both the transport and hydrodynamics. Results will likely be different if wetting and drying with any transport constituent.
- The fraction card (MP FRC) card has been removed.
- A bug fix has been made to correct zeroing velocity at dry nodes on a boundary. Results could be impacted slightly if an edge string node were dry during your simulation.
- A modification has been made such that when using NTL and ITL, only one of the convergence criteria must be met, not both.

Multiple Processor Execution:

- A 64 bit Windows multiple processor version of AdH is now available. To utilize this capability you must have the Microsoft 64bit SDK installed on your machine. We are unable to entertain requests for multi processor executables for other operating systems such as Mac OS, Linux etc. The generic command line for executing the Windows version is:

```
mpiexec -affinity -n processors adh.exe "filename"
```

Additional Information Sources:

- A new AdH website has been launched. Our hope is that this site is better organized and provides users with more usable information. Currently the site is best viewed in Mozilla Firefox or Google Chrome. We are attempting to smooth out some Internet Explorer issues with some of the menus but it will function.
- The interactive user site has been updated for AdH (and is continuously being updated) on the Knowledge Hub (<https://knowledge.usace.army.mil/Login.aspx>). This site is currently only available to USACE employees. The site houses the user manual and quick reference as well as video instructions and other documentation. This site allows users to share knowledge and ask questions.

This site will eventually replace the current AdH website for 2D shallow water and will become the primary means of communication with our development team. We encourage you to take a look at the Knowledge Hub user guides and join the Adaptive Hydraulics community.

For more information on these cards and up-to-date information, see the ADH 2-Dimensional Shallow Water Manual and the ADH Quick Reference at https://adh.usace.army.mil/new_webpage/main/main_page.htm.