

MAD8 for Windows

- SLAC/Daresbury MAD8DL for Windows had branched off from MAD Version 8.23:
 - Did not include latest changes at CERN for LHC
 - SLAC changes to CERN source code to include acceleration, different output from Twiss, etc.
 - Some of those changes later incorporated in CERN Unix versions by HG
- New CERN Version for (32-bit) Windows systems
 - Fortran code is almost identical to Unix Version 8.51/07 (I.e. `mad -new` on lxplus etc.)
 - Results appear almost identical (modulo numerical noise)
 - Win32 console application only (for now...)

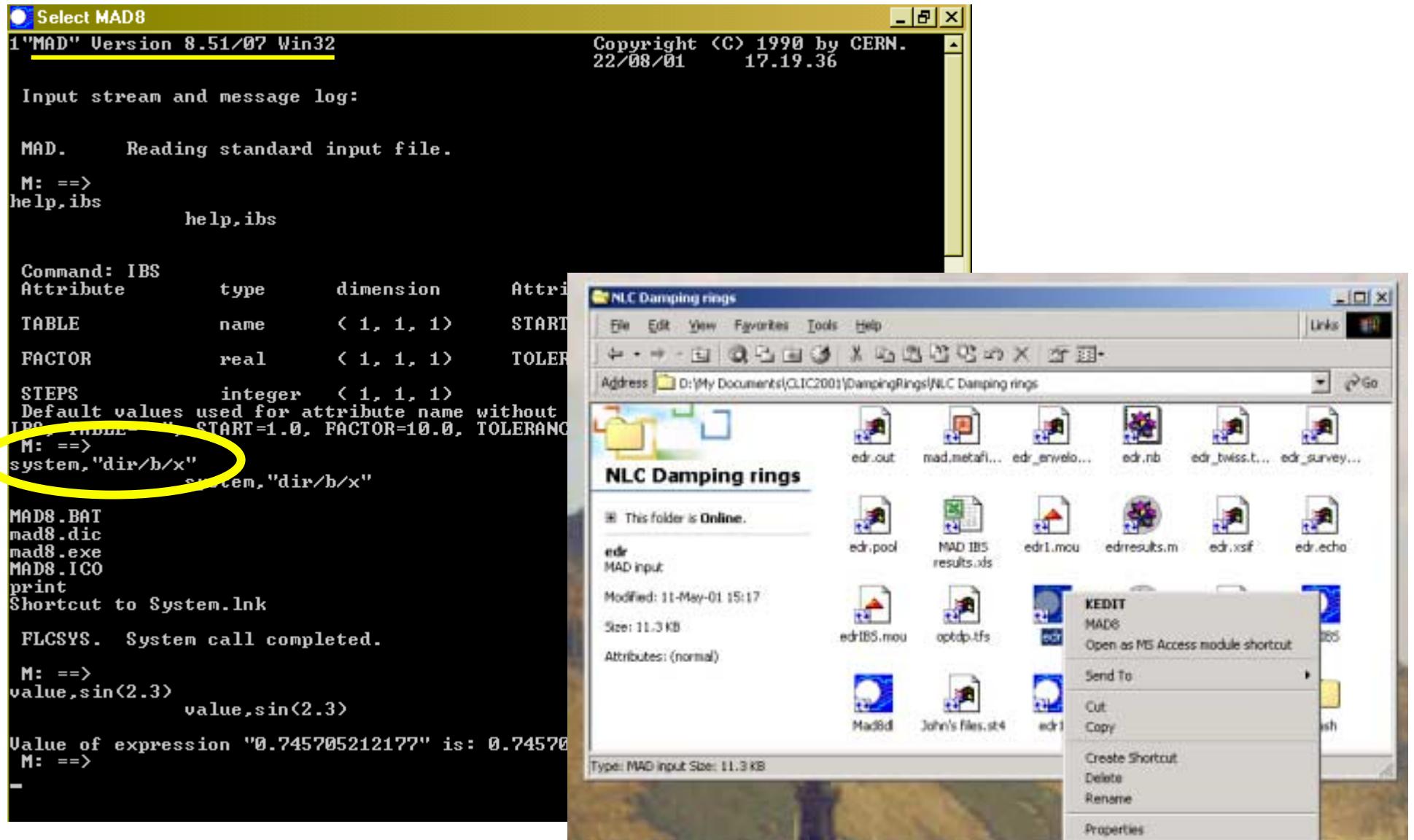
Installation and use

- All explained at:

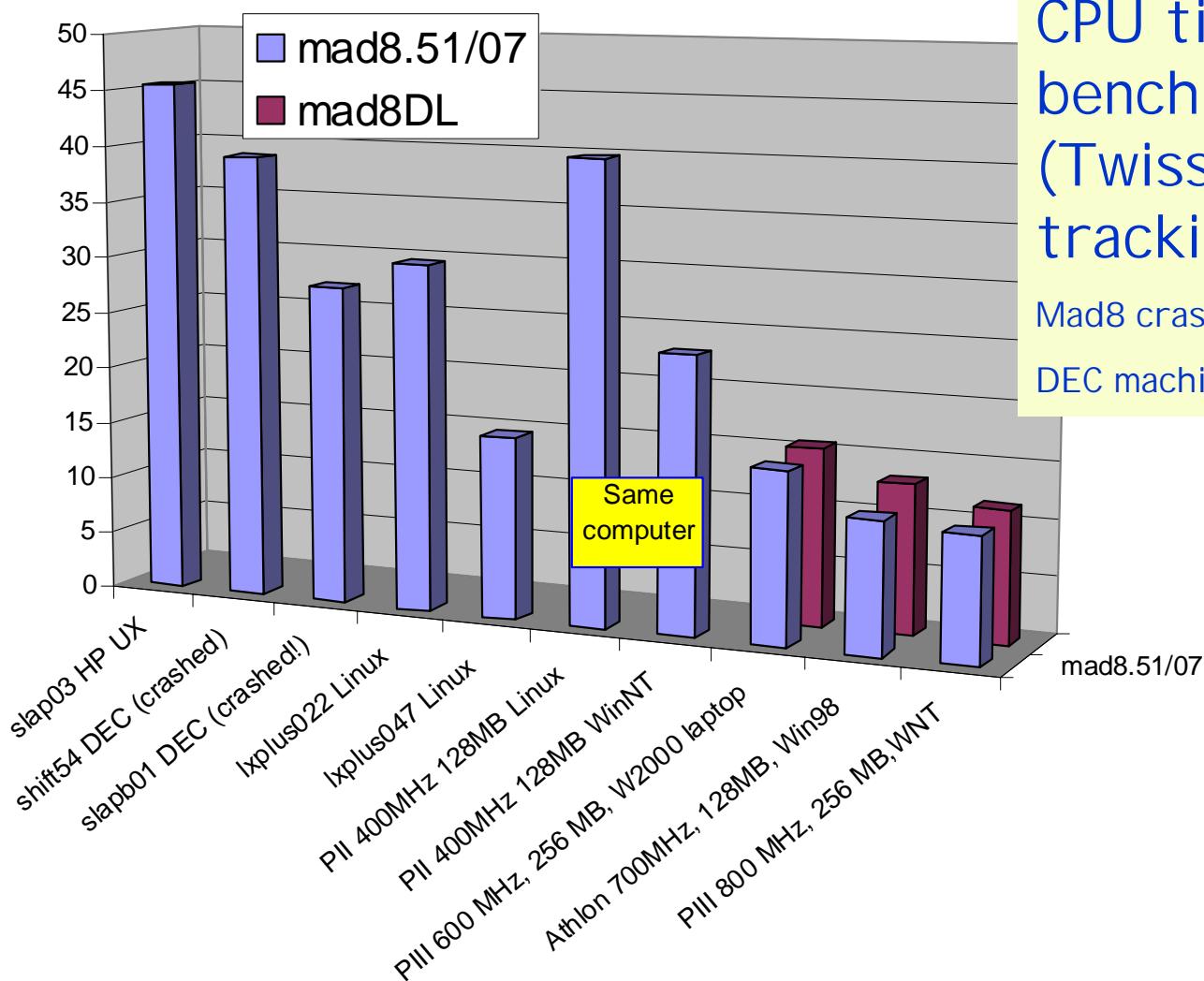
<http://jowett.home.cern.ch/jowett/ComputingNotes/mad8onWindows.htm>

- Get ZIP file (0.7 MB).
- Unzip mad8 folder to C:\Program Files\
- Set DICT environment variable
- Set file associations (if desired)
- Create shortcuts where you want (Start menu, Send To, ...)
- You can then do:
 - Right-click an input file
 - Drag input files onto an icon
 - Unix-style terminal sessions
 - Run from Mathematica notebooks or functions
- *Pretty simple but may get it all automated later anyway.*

Ways to run MAD8



Performance comparison



CPU time for a
benchmark job:
(Twiss, Lie4
tracking, plotting)
Mad8 crashed at plotting step on
DEC machines.