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NONMEM Installation

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What is NONMEM?

- Name
 - » NONlinear Mixed Effect Model
- Owners
 - » Globomax (a division of Icon plc)
 - » previously NONMEM Project Group (UCSF)
- Licenses
 - » Per CPU (not per computer or per person)
 - » US\$990 for 3 CPU licenses (academic)

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What do you get?

- CDROM
 - » Fortran source code
 - » Installation utility
 - setup.bat
 - » Simple qualification files
 - » Online help
- Printed User Guides

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What Else is Needed?

- Computer
 - » At least 1 GHz, 512 MB RAM, 5 GB free disk space
- Operating System
 - » Windows preferred
 - » Unix like systems are supported (including Mac)
- Compiler
 - » gfortran (included with NONMEM distribution)
 - » Intel Visual Fortran

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Where to Install?

- NONMEM
 - » Usually C:\nm730
 - » Can be anywhere (e.g. network drive)
- Compiler
 - » Usually in C:\Program Files
 - » License e.g. Intel must be installed on each computer

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Helpful Extras

- HTML-Help (included with NONMEM)
 - » Web browswr based system
- Pearl Speaks NONMEM and Xpose
 - » R based system
- Wings for NONMEM
 - » DOS based system
- PDX-POP (licensed by Globomax)
 - » Windows based system

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How to Install

- NONMEM Project Group
 - » setup.bat
- Wings for NONMEM
 - » nminstall.bat
- NMQUAL
 - » nmqual.p

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What Happens During Installation?

- Source code files are separated into many smaller files
- The compiler compiles the source code (.for) to object files (.obj)
- The library program creates a single nonmem.lib library of .obj files
- Each compiler has to have a separate NONMEM installation

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How is NONMEM Run?

- Several methods e.g.
 - » nmfe73
 - » nmgo
 - » PDx-pop
- Call NMTRAN.exe
- Compile FSUBS.for to FSUBS.obj
- Link NONMEM.lib+FSUBS.obj to create NONMEM.exe
- Call NONMEM.exe

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What Does NM-TRAN do?

- NM-TRAN
 - » Converts abbreviated code in control stream file to fortran (FSUBS.for)
 - » Merges user supplied subroutines with FSUBS.for
 - » Converts data file to format that NONMEM can read (FDATA)
 - » Creates NONMEM control file (FCON)

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Recommendations

- Maintain only one installation
- Automate 'mirror' process to different sites
- Manual copy if necessary but not reliable

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