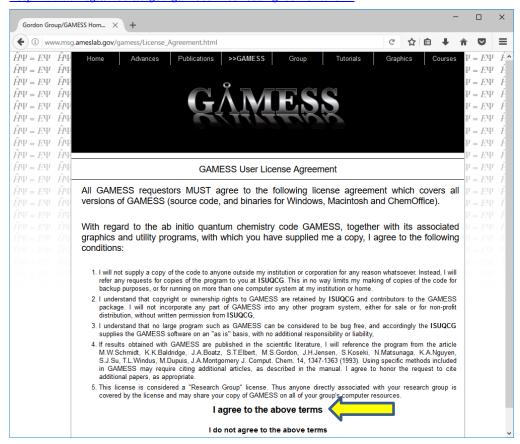
Installation guide for GAMESS on Windows

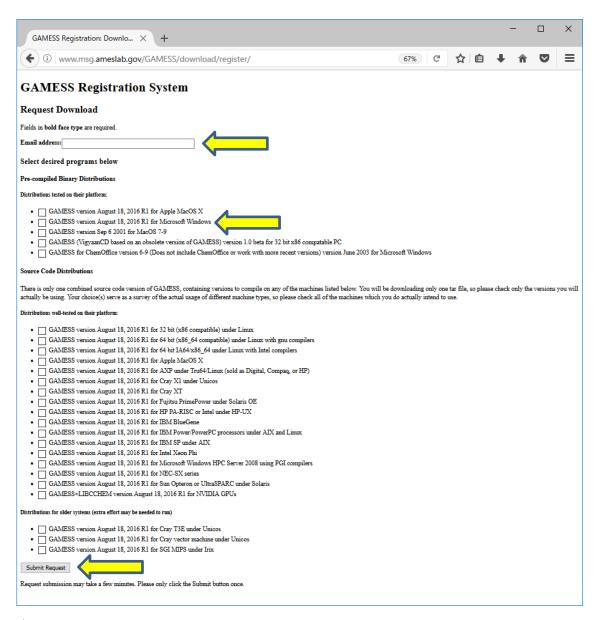
Feb. 15, 2017

1. Access to website link below.

http://www.msg.ameslab.gov/gamess/License Agreement.html

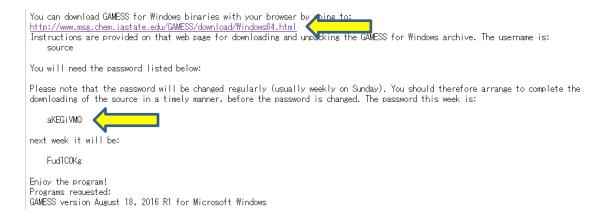


Click [I agree to the above terms].



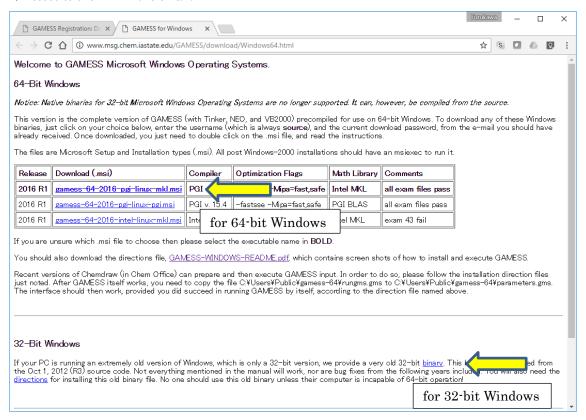
- 1) Put your email address.
- 2) Check 'GAMESS versionfor Microsoft Windows'
- 3) Click [Submit Request].
- 2. Download GAMESS by following the instructions in the email (see the fig. below).

<u>Caution!</u> The mail sometime delays in a few days.



1) Copy the password to download.

2) Access to the link in the email.



3) Download the installer package

[for 64-bit Windows]

The msi file in boldface (See the fig. above)

[for 32-bit Windows]

'32-bit binary'

4) Username and password are asked. Type as follows.

username: source

password: (from the email)

See

 $\underline{http://www.msg.chem.iastate.edu/GAMESS/download/GAMESS-Windows-64-Bit-README-THE}\\ \underline{N-README-AGAIN.pdf}$

 $\underline{http://www.msg.chem.iastate.edu/GAMESS/download/source/Windows/32bit/WinGAMESS-setup-guide-32.pdf}$

for detail.

3. Unpack .msi file

- 1) Move to the folder containing .msi file.
- 2) Double-click .msi file. The setup wizard starts.



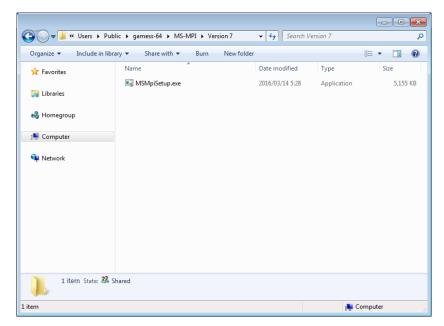
3) Click [Next] and follow the instructions on the wizard.

The folder to be installed must not be include white spaces.

4. MPI Installation

(for 64-bit version)

- 1) Move to the folder GAMESS installed (e.g. C:\Users\Public\gamess-64)
- 2) Move to MS-MPI¥Version 7



- 3) Double-click MSMpiSetup.exe and follow the instruction to install MS-MPI.
- 4) Restart Windows.

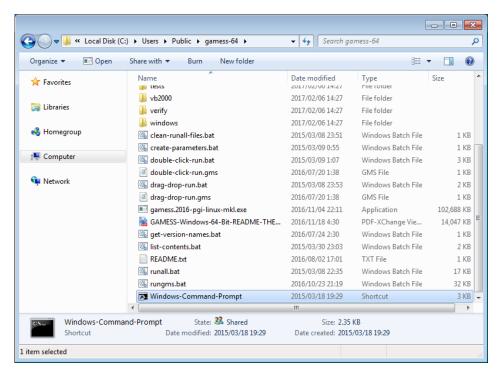
(for 32-bit version)

Download and install "Microsoft Visual C++ 2010 Redistributable Package (x86)" from $\frac{\text{https://www.microsoft.com/en-US/download/details.aspx?id=5555}}{\text{https://www.microsoft.com/en-US/download/details.aspx?id=5555}} \, .$

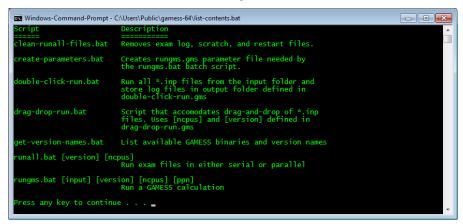
5. GAMESS Configuration

(for 64-bit version)

1) Move to the folder GAMESS installed (e.g. C:\Users\Public\gamess-64)



2) Double-click Windows-Command-Prompt.



- 3) Press any key to continue.
- 4) Type create-parameters.bat and press Enter. rungms.gms will be generated. Press any key to continue.

```
drag-drop-run.bat

Script that accomodates drag-and-drop of *.inp
files. Uses [ncpus] and [version] defined in
drag-drop-run.gms

get-version-names.bat

List available GAMESS binaries and version names

runall.bat [version] [ncpus]
Run exam files in either serial or parallel

rungms.bat [input] [version] [ncpus] [ppn]
Run a GAMESS calculation

Press any key to continue . .

C:\Users\Public\gamess-64>create-parameters.bat
GAMESSDIR=C:\Users\Public\gamess-64\auxdata
RESTARTOIR=C:\Users\Public\gamess-64\auxdata
RESTARTOIR=C:\Users\Public\gamess-64\scratch
Finished rungms.gms parameter file

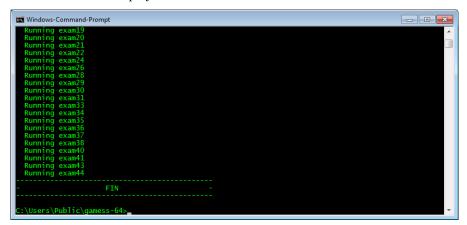
Press any key to continue . .

C:\Users\Public\gamess-64>

V=

C:\Users\Public\gamess-64>
```

5) To test GAMESS, type 'runall.bat 2016-pgi-linux-mkl 1' and press Enter. '2016-pgi-linux-mkl' is the version of GAMESS installed. If you do not know that, type 'get-version-names.bat' and press Enter and see the displayed version.



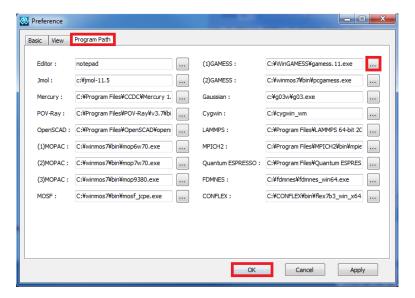
6) To test GAMESS parallel execution, type 'runall.bat 2016-pgi-linux-mkl 2' and press Enter.

(for 32-bit version)

- 1) Move to the folder GAMESS installed (e.g. C:\(\mathbb{Y}\) gamess.32)
- 2) Modify parameters in parameters.gms for the installed folder.

6. Setting PATH

1) Launch Winmostar and select [Tools]-> [Preference]. In Preference window, select [Program Path] panel, click [...] button at (1)GAMESS and choose the executable file. Then, click [OK].



for 64-bit: e.g. gamess.2016-pgi-linux-mkl.exe

for 32-bit: e.g. gamess.11-32.exe

7. Setting CPU cores

1) Select [QM1]-> [GAMESS Keywords]-> [NCPUS] in the menu-bar. Set number of cores to use GAMESS calculation.



2) (if Job Manager is available) Select [Others] -> [Job Manager]. Specify the number of cores to use as 'MaxCores'.

