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# *****

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# * OpenGATE Collaboration are pleased to announce the release of GATE 8.0
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```

```

# *oooo000000000000oooo* #
# * * * #
# * GATE_v8.0 * #
# * * * #
# *oooo000000000000oooo* #

```

```

# *-----* #
# * 04/20/2017 * #
# *-----* #

```

## 1/ I N S T A L L A T I O N

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- For a complete installation of GATE, user needs to read the Installation Guide

<http://wiki.opengatecollaboration.org/index.php/InstallationGuideV8.0>

- The installation of this GATE V8.0 version is supported, tested and recommended with the following:

- Linux distributions: RED HAT & Fedora & Mandrake & Mandriva & Ubuntu...
- Compiler: gcc 4.8 to 6.2
- ROOT 5.xx (from 14 to last version) or ROOT 6.xx (from 00 to last version)
- ITK (version 4.10.xx or later)
- Geant4 10.3 (including the embedded CLHEP) but remains backward compatible with Geant4 10.2
- Optional dependencies: lmf\_v3.0 and ecat7

NOTES:

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- Validated for 64 bits architectures
- The use of different Geant4 versions (other than 10.2 and 10.3) may cause incorrect simulation results
- Users can also use the external CLHEP v2.3.4.3

2/ C O M P I L A T I O N

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!!!WARNING: Since the 6.2 GATE version, the installation procedure is managed by CMAKE!!!

- Download the sources at this address:  
[www.opengatecollaboration.org/GATE80](http://www.opengatecollaboration.org/GATE80)

- Install, unzip and untar the downloaded file: `tar -xzf gate_v8.0.tar.gz`

- In the same directory, create two directories to build and install GATE:

```
mkdir gate_v8.0-build
mkdir gate_v8.0-install
```

- Move into the GATE build directory:  
`cd gate_v8.0-build`

- Launch the `ccmake` command to the `gate_v8.0` source directory:  
`ccmake ../gate_v8.0`

Warning : look at the information about following compilation options:

<code>BUILD_TESTING</code>	OFF: by default, set to ON if you want to perform build testing
<code>GATE_DOWNLOAD_BENCHMARKS_DATA</code>	OFF: by default, set to ON if you want to download them
<code>GATE_USE_ECAT7</code>	OFF: by default, set to ON if you want to use this library
<code>GATE_USE_GPU</code>	OFF: by default, set to ON if you want to use GPU modules
<code>GATE_USE_ITK</code>	OFF: by default, set to ON if you want to access DICOM reader and thermal therapy capabilities
<code>GATE_USE_LMF</code>	OFF: by default, set to ON if you want to use this library
<code>GATE_USE_OPTICAL</code>	OFF: by default, set to ON if you want to perform simulation for optical imaging applications
<code>GATE_USE_RTK</code>	OFF: by default, set to ON if you want to use this toolkit
<code>GATE_USE_STDC11</code>	ON : by default, set to ON if you want to use another standard for the C programming language (advanced users)
<code>GATE_USE_DAVIS</code>	OFF: by default, set to ON if you want to use the Davis LUT model
<code>GEANT4_USE_SYSTEM_CLHEP</code>	OFF: by default, set to ON if you want to use an external CLHEP version

- Configure CMAKE\_INSTALL\_PREFIX to the full path of the gate\_v8.0-install directory that you just created.

- Like for Geant4, press 'c' to configure and 'g' to generate the makefile.

- Compile:

```
make -jN (N is the number of processor(s) in your PC)
make install
```

- Last step, update your environment variables file with the following command lines:

```
â€¢ bash or zsh:
```

```
export PATH=$PATH:/PATH_TO/gate_v8.0-install/bin
```

```
â€¢ [t]csh
```

```
setenv PATH ${PATH}:/PATH_TO/gate_v8.0-install/bin
```

â€¢ According to your system, you may also have to set environment variables for Root and Geant4

```
- Root : source ${ROOTSYS}/bin/thisroot.sh
```

```
- Geant4 : source ${YOUR_GEANT4_INSTALL_FOLDER}/bin/geant4.sh
```

### 3/ C O M P I L A T I O N W A R N I N G S

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There may be compilation warnings on some platforms.