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Intel Parallel Studio XE 2020 on RHEL8

— *이강우 2020/10/19 10:32*

Redhat Enterprise Linux 8 버전에 Intel Parallel Studio XE 2020 을 설치하는 방법을 설명한다.

RHEL8 구성

RHEL8은 Server with GUI 모드에 Legacy UNIX Compatibility, Development Tools 를 추가하여 설치한다.

Intel Parallel Studio XE 2020 설치

추가로 필요한 패키지를 아래 명령어를 통해 설치한다. 32비트 라이브러리도 필요하기때문에 같이 설치해야 한다.

```
[root@myserver ~]# yum -y install elfutils-libelf-devel libXScrnSaver gcc-
toolset-9-elfutils-libelf-devel libstdc++ libstdc++-devel libstdc++.i686
libstdc++-devel.i686 gcc-toolset-9-libstdc++-devel gcc-toolset-9-libstdc++-
devel.i686 glibc glibc.i686 glibc-devel glibc-devel.i686 libgcc libgcc.i686
```

```
[root@myserver parallel_studio_xe_2020_update2_cluster_edition]#
./install.sh

------------------------------------------------------------------------------
----
Initializing, please wait...
------------------------------------------------------------------------------
----

Welcome
------------------------------------------------------------------------------
----
Welcome to the Intel(R) Parallel Studio XE 2020 Update 2 Cluster Edition
Linux*
------------------------------------------------------------------------------
----

You will complete the following steps:
   1.  Welcome
   2.  End User License Agreement
   3.  Intel® Software Improvement Program
   4.  License Activation
   5.  Configuration
```

```
   6.  Installation
   7.  Installation Complete

..... 생략

Installation
-------------------------------------------------------------------------------
Each component will be installed individually. If you cancel the
installation,
some components might remain on your system. This installation may take
several
minutes, depending on your system and the options you selected.
-------------------------------------------------------------------------------
Installing Intel Trace Collector for Intel(R) 64 Architecture component...
done
-------------------------------------------------------------------------------
Installing Intel Trace Analyzer for Intel(R) 64 Architecture component...
done
-------------------------------------------------------------------------------
Installing Cluster Checker component...^[[1~ done
-------------------------------------------------------------------------------
Installing Platform Profiler component... done
-------------------------------------------------------------------------------
Installing Command line interface component... done
-------------------------------------------------------------------------------
Installing Sampling Driver kit component... done
-------------------------------------------------------------------------------
Installing Graphical user interface component... done
-------------------------------------------------------------------------------
Installing Graphical user interface component... done
-------------------------------------------------------------------------------
Installing Command line interface component... done
-------------------------------------------------------------------------------
Installing Flow Graph Analyzer component... done
-------------------------------------------------------------------------------
Installing Command line interface component... done
-------------------------------------------------------------------------------
Installing Graphical user interface component... done
```

```
----------------------------------------------------------------------------
----
Installing Intel TBB for Intel(R) 64 component... done
----------------------------------------------------------------------------
----
Installing Intel C++ Compiler for Intel(R) 64 component... done
----------------------------------------------------------------------------
----
Installing Intel TBB for IA-32 component... done
----------------------------------------------------------------------------
----
Installing Intel C++ Compiler for IA-32 component... done
----------------------------------------------------------------------------
----
Installing Intel Fortran Compiler for Intel(R) 64 component... done
----------------------------------------------------------------------------
----
Installing Intel Fortran Compiler for IA-32 component... done
----------------------------------------------------------------------------
----
Installing Intel MKL core libraries for C/C++ for Intel(R) 64 component...
done
----------------------------------------------------------------------------
----
Installing GNU* C/C++ compiler support for Intel(R) 64 component... done
----------------------------------------------------------------------------
----
Installing Intel MKL core libraries for C/C++ for IA-32 component... done
----------------------------------------------------------------------------
----
Installing GNU* C/C++ compiler support for IA-32 component... done
----------------------------------------------------------------------------
----
Installing PGI* C/C++ compiler support for Intel(R) 64 component... done
----------------------------------------------------------------------------
----
Installing Intel TBB threading support for Intel(R) 64 component... done
----------------------------------------------------------------------------
----
Installing Intel TBB threading support for IA-32 component... done
----------------------------------------------------------------------------
----
Installing Cluster support for C/C++ component... done
----------------------------------------------------------------------------
----
Installing Intel MKL core libraries for Fortran for Intel(R) 64 component...
done
----------------------------------------------------------------------------
----
Installing Fortran 95 interfaces for BLAS and LAPACK for Intel(R) 64
component... done
```

```
-----------------------------------------------------------------------------
----
Installing Intel MKL core libraries for Fortran for IA-32 component... done
-----------------------------------------------------------------------------
----
Installing Fortran 95 interfaces for BLAS and LAPACK for IA-32 component...
done
-----------------------------------------------------------------------------
----
Installing GNU* Fortran compiler support for IA-32 component... done
-----------------------------------------------------------------------------
----
Installing GNU* Fortran compiler support for Intel(R) 64 component... done
-----------------------------------------------------------------------------
----
Installing Cluster support for Fortran component... done
-----------------------------------------------------------------------------
----
Installing Intel IPP single-threaded libraries for Intel(R) 64: General
package
component... done
-----------------------------------------------------------------------------
----
Installing Intel IPP multi-threaded libraries for Intel(R) 64 component...
done
-----------------------------------------------------------------------------
----
Installing Intel IPP single-threaded libraries for IA-32: General package
component... done
-----------------------------------------------------------------------------
----
Installing Intel IPP multi-threaded libraries for IA-32 component... done
-----------------------------------------------------------------------------
----
Installing Intel DAAL for Intel(R) 64 component... done
-----------------------------------------------------------------------------
----
Installing Intel DAAL for IA-32 component... done
-----------------------------------------------------------------------------
----
Installing Intel MPI Library for applications running on Intel(R) 64
Architecture component... done
-----------------------------------------------------------------------------
----
Installing Intel MPI Benchmarks component... done
-----------------------------------------------------------------------------
----
Installing Python sources component... done
-----------------------------------------------------------------------------
----
```

```
Installing Source of GNU* GDB 8.3 component... done
-------------------------------------------------------------------------------
----
Installing GNU* GDB 8.3 on Intel(R) 64 component... done
-------------------------------------------------------------------------------
----
Installing Intel(R) Distribution for Python* 3 for Linux* component... done
-------------------------------------------------------------------------------
----
Finalizing product configuration...
-------------------------------------------------------------------------------
----
Installing Application Performance Snapshot... done
-------------------------------------------------------------------------------
----
Preparing driver configuration scripts... done
-------------------------------------------------------------------------------
----

Installation Complete
-------------------------------------------------------------------------------
----
Thank you for installing Intel(R) Parallel Studio XE 2020 Update 2 Cluster
Edition Linux*.

If you have not done so already, please register your product with Intel
Registration Center to create your support account and take full advantage
of
your product purchase.

Your support account gives you access to free product updates and upgrades
as well as Priority Customer support at the Online Service Center
https://supporttickets.intel.com.



-------------------------------------------------------------------------------
----
Press "Enter" key to quit:
[root@myserver parallel_studio_xe_2020_update2_cluster_edition]#
```

이렇게 하면 설치가 완료된다. 설치 경로는 기본값으로 `/opt/intel/` 아래에 설치된다.

이후 사용하기 위해서는 환경변수를 추가로 설정해줘야 한다.

사용 환경변수 설정

```
export PATH="$PATH:/opt/intel/inspector_2020/bin64"

source /opt/intel/inspector_2020/inspxe-vars.sh
source /opt/intel/parallel_studio_xe_2020/psxevars.sh
```

참조링크

- https://software.intel.com/content/www/us/en/develop/tools/parallel-studio-xe.html

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Last update: **2020/10/19 01:44**