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## **Software Hardware List**

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
1, 2, 4, 5, 6, and 7	CUDA Toolkit 9.x/10.x	Free			https:// developer. nvidia. com/cuda- toolkit	Common X86 system with NVIDIA GPUs later than Pascal architecture	Linux
3	CUDA Toolkit 9.x/10.x	Free			https:// developer. nvidia. com/cuda- toolkit https:// developer. nvidia. com/ nsight- compute- 2019_1- new- features	Common X86 system with NVIDIA GPUs later than Pascal architecture	Linux
8	,	Free Property	Yes	It depends on the software plan	https:// developer. nvidia. com/cuda- toolkit	Common X86 system with NVIDIA GPUs later than Pascal architecture	Linux

19		Free Free (Community Edition)	https develous develo	coper. a. uda- it :// NVIDIA GPUs later than Pascal architecture	Linux
10	CUDA Toolkit 9.x/10.x NGC	Free	https develonvidia com/cottoolk: https develonvidia com/co	coper.  a. Common X86  uda- it NVIDIA GPUs  :// later than Pascal oper. a.	Linux
Appendix	CUDA Toolkit 9.x/10.x	Free	https develo nvidia com/cu toolk:	oper. system with  NVIDIA GPUs  uda- later than Pascal	Linux

Before installing any CUDA software or getting any help we suggest the users register themselves onto CUDA Developer Forum at https://devtalk.nvidia.com.

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

- 1. CUDA Installation: CUDA installation comes with 3 components (Driver, Toolkit, Sample Codes)
  - 1. All the detailed steps to install CUDA for different OS can be found at:
    - For Linux: https://docs.nvidia.com/cuda/cudainstallation-guide-linux/index.html
    - For Windows: https://docs.nvidia.com/cuda/cudainstallation-guide-microsoft-windows/index.html
  - 2. If you find any issues related to CUDA installation you can go to CUDA Developer forum and either search for similar issues or start a new thread on same
- 2. PGI Installation: PGI compilers support OpenACC feature which needs to be installed after the CUDA installation is complete
  - All the detailed steps to install PGI compilers for different OS can be found at:
    - https://www.pgroup.com/resources/docs/19.1/x86/pgi-install-guide/index.htm

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