

**Tentative Technical Programme –  
Three-Days C-DAC Internal Workshop on OpenPower for HPC and BIG Data Processing Applications**  
(Using IBM POWER8 System with NVIDIA GPUs)

*Jointly Organized by C-DAC, Pune and IBM Bengaluru*

**Venue :** RMZ, C-DAC, Pune

**Dates :** August 03 (Wednesday) – August 05 (Friday), 2016

**Tentative Technical Programme**

**Registration at the venue:** 8.45 am to 9.00 am

**Tea & Refreshments Time :** 10:30 AM to 10:45 AM

**Lunch :** 1:00 PM to 2:00 PM

**Tea & Refreshments Time :** 4:30 PM to 4:45 PM

Day & Date	9.00 am – 9.45 am	9:45 am – 10:30 am	10.45 am -11.45 am	11:45 am–12.45 pm	2.00 pm -3.00 pm	3.00 pm -4.30 pm	4:45 pm -5:45 pm
<b>Wednesday 03.08.2016</b>	<b>Inaugural Session An Overview of OpenPower( RISC Hardware /Software) IBM Power8 with NVIDIA GPUs (IBM)</b>	<b>IBM POWER8 Sys: RISC -hardware / Software – Case Study- IBM XLC Compliers, Best Practices (IBM)</b>	<b>IBM POWER8 Sys: RISC Hardware /Software IBM Bandwidth, PCIe, Overview Prog. Env. GPUs. (NVIDIA)</b>	<b>IBM POWER8 Sys: RISC Hardware /Software NVIDIA GPUs. Tuning/Perf. NVLINK- IBM POWER8 (NVIDIA)</b>	<b>IBM POWER8 Sys: RISC -hardware / Software- OpenPOWER- GPUs; Apps. Perf. CDAC/IBM/NVIDA</b>	<b>IBM POWER8 Sys: RISC -Hardware software- Prog. Env. &amp; Hands-on XLC, ESSL Lib. CDAC/NVIDIA/IBM</b>	<b>IBM POWER8 Sys: Cluster Apps. Case Study on IBM Power8-GPU App. Kernels /Libs. CDAC/NVIDIA/IBM</b>
<b>Thursday 04.08.2016</b>	<b>OpenPOWER Foundation Community Efforts Meetings – Prog. Update (IBM)</b>	<b>IBM POWER8 Sys: RISC Cluster – InterConnect Mellanox Scalable HPC Interconnect: IBM Power8 Cluster (MELLANOX)</b>	<b>IBM POWER8 Sys: RISC -hardware / Software- NVLINK, CAPI- FPGA Overview (IBM)</b>	<b>IBM POWER8 Sys: RISC Cluster Interconnect IBM POWER-8– GPUs Apps (MELLANOX)</b>	<b>IBM POWER8 Sys: RISC Hardware/ Software : Tools on Power8 GPUs : Demonstration IBM/CDAC/NVIDIA</b>	<b>IBM POWER8 Lab RISC -hardware / Software-GPUs OpenPOWER Benchmarks CDAC/IBM/NVIDIA</b>	<b>IBM POWER8 Sys: Cluster Apps. Case Study on IBM Power8 &amp; GPU Apps.- Libs. (CDAC/(IBM)</b>
<b>Friday 05.08.2016</b>	<b>IBM POWER8 Sys: RISC -hardware software- Hadoop MapReduce BIG Data Environment /Spark Prog. Environment (CDAC/IBM)</b>	<b>IBM POWER8 Sys: RISC -hardware BIG Data Lab. OpenPOWER -GPUs using Hadoop MapReduce /Spark CDAC/IBM</b>	<b>IBM POWER8 Sys: RISC -hardware / BIG Data Elastic Storage Server (ESS); Overview (IBM)</b>	<b>IBM POWER8 Sys: RISC -hardware software- Tuning &amp; Performance- IBM Power8 - GPUs &amp; Tools –SPARK CDAC/IBM</b>	<b>Apache Spark Performance on OpenPOWER- Based Clusters Using IBM Power Systems</b>	<b>IBM POWER8 Sys: RISC hardware / BIG Data Lab. Session – GPUs Hadoop MapReduce /SPARK CDAC/IBM</b>	<b>IBM POWER8 Sys: Cluster Apps.; Big Data -Case Study on IBM Power8 &amp; GPU Apps.- Libs. Hadoop MapReduce /SPARK/R-Lang. (CDAC/(IBM)</b>

**Speakers :** IBM, NVIDIA, Mellanox and C-DAC

:Orange :IBM  
  Green :NVIDIA;  
  Yellow: Mellanox;  
  Light Blue :C-DAC  
  Purple = Big Data Lab.  
  Pink : HPC Lab.