PES University

Cloud Computing and Big Data

CCBD Internship Update

Team Details and Guide Name

Name	SRN
Abhishek Aditya BS	PES1UG19CS019
Supreeth G Kurpad	PES1UG19CS520
Vishal R	PES1UG19CS571

Guide : Dr. Subramaniam K V Sir.

CCBD Internship Progress – Week 1

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Our topic, **TailBench**, is a benchmarking suite that is used in latency critical applications.

- In the first week, we focused our attention on understanding the TailBench application by reading a few papers on it.
- We spent time understanding the importance of having low processing latency in network applications.
- We also looked at a few programs under TailBench like *masstree, moses, silo, shore, xapian* and so on, and tried to understand their functionalities on a high level.

CCBD Internship Progress – Week 2

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- In the second week, we tried to get the TailBench benchmarking software to run on our local systems.
- We faced certain difficulties when we were compiling the software.
- We looked at other TailBench repositories on GitHub to find solutions for missing dependencies and compiling issues we had with ours.
- We then switched over to the recommended OS, Ubuntu 18.04, for compiling TailBench.
- We managed to get 6 out of 9 applications under TailBench to work on our systems.

CCBD Internship Progress – Week 3

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- Upon further debugging and looking at other TailBench repositories, we wrote a setup script that installed all the required dependencies required to compile TailBench.
- We switched to a brand new Virtual Machines and executed the setup script.
- We were now able to compile all the 9 applications that TailBench comes with and we replicated the same steps on each other systems to verify the correctness of the installation script.
- We then executed all the applications using the respective run scripts and we were able to obtain the **95th, 99th percentile latencies** as well as the mean latency for each of the nine different applications.

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THANK YOU!