



Advanced Architecture "Playgrounds" — Past Lessons, Current and Future
Accesses of Testbeds

Slides and Questions at <https://caatb.github.io/aatb-bofs/>

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BoF Questions for Panelists

1. What are the goals of your testbed program?
2. How are you envisioning using your testbeds to evaluate **energy efficient computing** technologies?
3. How are your testbeds being prepared for post-exascale evaluations?
 - (optional) If you could change one architectural component of your test bed to make it better, what would this component be and why?
4. What strategies are you using to evaluate AI workloads, especially with the influx of new AI accelerators?
5. Lessons learned: Can you share the key successes and challenges experienced during your testbed programs?

Questions From BoF Attendees

- **Where do these testbeds live? In the lab or just in a data center?**
 - Depending on the items, both!
- **How do you fund these testbeds?**
 - Labs tend to get internal or government funding to set up these testbed. NSF funds some testbeds in the USA.
- **What is the next phase of your specific testbed?**
 - It depends on the specific testbed but panelists noted future growth and focus on emerging architectures.
- **How do you support user debugging?**
 - For some bench-based testbeds like [ExCL](#) provide remote access to tools and capabilities plugged up to “edge” devices.
- **How many nodes are needed of a novel architecture to be useful to determine if it should be deployed at scale?**
 - At least 2, ideally 4-16 or more
- **Attendees noted other related advanced architecture edge efforts like Chameleon Cloud’s [CHI@Edge](#).**