Welcome to HOT CHIPS 25, the 25th anniversary conference. A look back over these 25 years shows the amazing progress made in computer engineering. This progress can be measured in terms of performance, cost, density and the like. Indeed improvements in computational and storage density have probably approached six orders of magnitude and have enabled corresponding advances in communications. These basic technological advances have brought advances in functionality, creating new companies, new markets and indeed new patterns of socialization.

The Hot Chips conference is a platform to record these advances year-by-year; it is both the record of these advances and the communication of ideas that will enable new progress in the field.

For those of you who are new to Hot Chips, it is worth reviewing how the conference operates. The program co-chairs in 1997 described conference operation in the following way, and we present that summary here:

The focus of Hot Chips is to get timely technical information on important, upcoming, or previously un-presented chips and related technologies to our attendees. This conference is unusual in that it is a technical conference that is product focused. We aren't about research, although a typical conference does have some research presentations, and we (especially) aren't about marketing. In general, our bias been toward chips and related technologies which are not only "hot" (or in the case of low power, "cold"), but which are also interesting at the architectural level.

In order to do this, Hot Chips is run differently than other conferences:

- The program is not assembled, as is usual for most technical conferences, by considering unsolicited submissions we also actively solicit presentations meeting our criteria.
- Presentations at Hot Chips are accepted on the basis of an abstract, and only copies of the speakers' slides are printed, so presenters can show their latest work with the lowest possible effort and shortest lead time.
- Finally, while presentations are provisionally accepted on the basis of an abstract, they aren't fully accepted until the slides are reviewed and approved by a program committee member (usually their session chair) for their technical content.

In order to reach a wider audience, the final responsibility of the program committee will be to select the "Best of the Hot"; those authors will be invited to prepare papers on their material for IEEE Micro magazine.

Obviously, this conference couldn't take place without the work by all of the members of the program committee, all of whom worked hard to solicit, select and improve presentations, and the members of the organizing committee, who make sure that there is a conference, in a room, with proceedings, registration, badges, parking, signs, computer access, publicity and food. There is always work for organizing committee members to do, and anyone interested is invited to approach the conference general chair (or others working in conference operations) to volunteer to work on future conferences. Finally, we acknowledge the speakers, without whom there would be no conference. We thank everyone involved for their efforts.

Michael J Flynn and Donald K Newell

Program Co Chairs HotChips25

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