System-on-Chip (SoC) Interest Group Meeting

- Retrospective
- Social Media
- Operating System

Retrospective

Workshop June 7 – 11, 2021:

- **https://indico.cern.ch/event/996093/**
- **Contains all presentations and tutorials + recordings + minutes**

CERN-EP NewsLetter article on System-on-Chip

- **https://ep-news.web.cern.ch/node/3279**
- **Article for a larger public: What is System-on-Chip? What was the workshop about? What are current and future projects?**

Social Media

Communication:

- **E-Mail: system-on-chip@cern.ch**
  - **for announcements and discussions, please register if you have not done so yet**
- Mattermost **: https://mattermost.cern.ch/systemonchip**
  - **for instant messages and news**
- Discourse **: https://systemonchip.web.cern.ch**
  - **for problems, questions, and solutions/answers - *we are counting on your help!***

Resources:

- collaborate with TWiki **: https://twiki.cern.ch/twiki/bin/view/SystemOnChip**
  - **for documentation, recipes, presentations, etc.**
- GitLab **: https://gitlab.cern.ch/soc**
  - **for source code, tutorial material, etc.**

Operating System

Status reported by the Linux Future Committee, see presentation by B. Morrice (CERN-IT) at HEPIX 2021:

- **CentOS 7: EOL = JUN-2024 ⇒ can still be used in Run 3, e.g. ATLAS**
- **CentOS 8: EOL = DEC-2021 ⇒ being replaced by CentOS Stream 8 (EOL = MAY-2024)**
- **Longer term: currently aiming for CentOS Stream 9**
  - **Possibility to use RHEL under an academic license for certain use-cases, currently under negotiation**
- **Important for SoC community: support for ARM (aarch64) is taken into account**

In the mean time, CERN-IT propose to use CentOS Stream 8; they provide support for ARM:

- **Mirror aarch64 repositories: http://linuxsoft.cern.ch/cern/centos/s8/**
- **lxplus8-arm.cern.ch: experimental server running CentOS Stream 8/aarch64**
- **gitlab-runner: shared runner available on gitlab.cern.ch, runs on lxplus8-arm, tag "docker-arm", e.g. for native compilation**