

OSS @ GSI

Developments and Applications

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with the help of

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General Ideas at GSI

1. Publish software developments and allow for free access in the communities
 - later improvements by other authors are welcome OR
 - software should be kept „as is“ („calibrated/tested“ software)
 2. Authorship should be acknowledged (likewise scientific publications) documentation as part of the packages
 - (<http://de.creativecommons.org/> creative commons?)
 3. No reliability, software/firmware is provided „as is“
 - contradicts potentially local regulations
- ➔ GPL a solution for all questions/problems ?

Fields of application at GSI

Systems

- GCC developments / Linux environment
- Linux compute farms / lustre mass storage
- FPGA programming
- Controls (Labview/EPICS) – Multi-platform

Fields of application at GSI

Simulation/Analysis

- Geant 3/4
- Root
- Go4 (GPL'ed)
- CLHELP
- CERNLIB
- QtGSI (LGPL'ed)
- Open Cascade
- PAW
- Lustre
- **Fluka**

lots of GSI developments used by others

for example

- TRiPs98
- TRAX
- Atima
- Mirco
- PHITS

→ no ,revoking' of acces
after release

Fields of application at GSI

DAQ near

1. MBS (GSI DAQ)
2. ucesb (versatile unpacker)
3. open firmware
 - configurable (trigger) logics (free)
 - Pulse shape analysis (PSA free / Sys.-Interfaces provided by Struck)

Controls

- CS/HGF (Labview based framework)
- EPICS (driver and application developments)

Frameworks: ROOT/PAW

Questions from GSI

Legal

- Licence model (GPL, LGPL, ...) ?
- Reliability questions
- Third party IPs: University/Industry

Organisatorical

- Collaboration Issues / Contracting
- Granting/Revoking Access after release
- Special Conditions
- Service Contracts vs. Licenses