



Enabling Grids for E-science

Pan Compiler

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Information Society
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- **Compiler Status**
- **Future Plans**
- **Discussion**
 - Feature requests, problems, etc.
 - Time scales.
 - ...

- **V6 (unsupported)**
 - C-version of the compiler.
- **V7.2.9 (maintenance)**
 - First java version of the compiler.
 - Still in use and supported.
- **V8.2.2 (active development)**
 - Second java version.
 - Significant language and implementation changes from v7.
 - Next release (v8.2.3) expected in few weeks.
 - Known intermittent threading problem (since v7).

- **Facilitate pan language editor and debugger.**
 - Making grammar changes for better support.
 - Internal refactoring to make such things easier.
- **Performance**
 - Continued optimization of generated code.
 - Reduce memory footprint via object sharing.
 - Understand speed differences between machines, JVMs, ...
- **XInclude support (replace stream, fetch, embed).**
- **Features**
 - V9 will remove deprecated syntax of v8.
 - Authentication/Authorization (TBD).
 - ...

- **Authentication/Authorization**
 - Extension of type system probably most straight-forward in terms of use, but will need significant optimization to avoid performance degradation.
- **RFEs**
 - Feature requests?
 - Language change requests?
- **Time scales?**
 - Move pan compiler code to SourceForge.
 - Continue patch releases roughly monthly, if needed.
 - Next major release and content.