Google Summer of Code

&

Summertalk

NewCompiler

- Student: Mathieu Suen

- Mentor: Markus Denker

- Enhance the new Squeak compiler and optimize the generated code

NewCompiler

- Why NewCompiler?
  - Support for full block closures (optional)
  - Based on the AST of the Refactoring Engine
  - SmaCC-based Parser
  - Retargable Backend

NewCompiler

- Latest SmaCC compatibility

- Decompiling

  - BlockContext

  - BlockClosure

  - Many tests for the decompiler

- A lot of bug fixes

NewCompiler

- Optimization
  - Primitive for BlockClosure>>value
  - Primitive for BlockClosure>>createBlock:
  - Bytecode for retrieving temporaries inside closure environment

Monticello 2

- Student: Damien Cassou

- Mentor: Stéphane Ducasse

- Restarting MC2 development, enhancing its visibility and writing documentation.

Monticello 2

- Development
  - GUI (based on OmniBrowser)
  - MC1-like repository
  - Refactorings/cleanings

Monticello 2

- Visibility

  - Blog posts (http://blog.summer.squeak.org)

  - Mails to the squeak-dev mailing list

  - Package on the Universe

  - Hosted on SqueakSource

Monticello 2

- Documentation
  - Class and method comments
  - Wiki (http://wiki.squeak.org/squeak/5624)
    - UML diagrams
    - Links to resources (old blog posts, public mails...)
    - Generic documentation

Monticello 2

- Status

  - Model nearly complete and tested

  - GUI opened to features

- Further work

  - Reach MC1 main features

  - Use the new design to test new features (non package-based...)

OB Traits integration

- Student: Juraj Kubelka

- Mentor: Stéphane Ducasse

- To offer an OmniBrowser framework extension for easy development with Traits

OB Traits integration

- What has been done so far:
  - Trait-composition hierarchy
  - Method exclusion/deletion / compilation
  - Enhancements in OmniBrowser and OB package

OB Traits integration

- Further work:
  - Refactoring to Traits
  - Tree widget
  - Other requests on ob-dev or squek-dev mailing list

OB Traits integration

- Visibility
  - Mails to the ob-dev mailing list
  - Package on the Universe
  - Hosted on Wiresong.ca

Squeak HTML/CSS Parser

- Student: Jérome Chauveau

- Mentor: Todd Blanchard

- The goal is to build a HTML/CSS renderer to display mails and previewing pages during Seaside application developments for example.

OWRTA

- Student: Oleg Korsak

- Mentor: Keith Hodges

- Extending Pier usability and improving scalability and performance.

Collaborative Development

- Student: Benjamin Vanderheyden Schroeder

- Mentor: Ralph Johnson

- Developing Croquet versions of Squeak programing tools.