

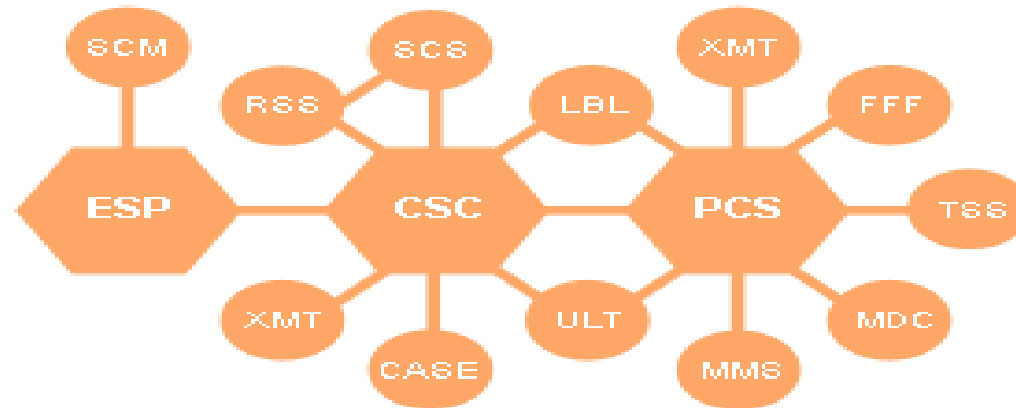
Applying Parallelism in Kiwiplan Gui Framework

Prabhjot Singh

Introductory Seminar

Company

- Kiwiplan NZ Ltd. started in 1970's as a small corrugating firm.
- Today it is one of the world's leading software suppliers to the packaging industry.

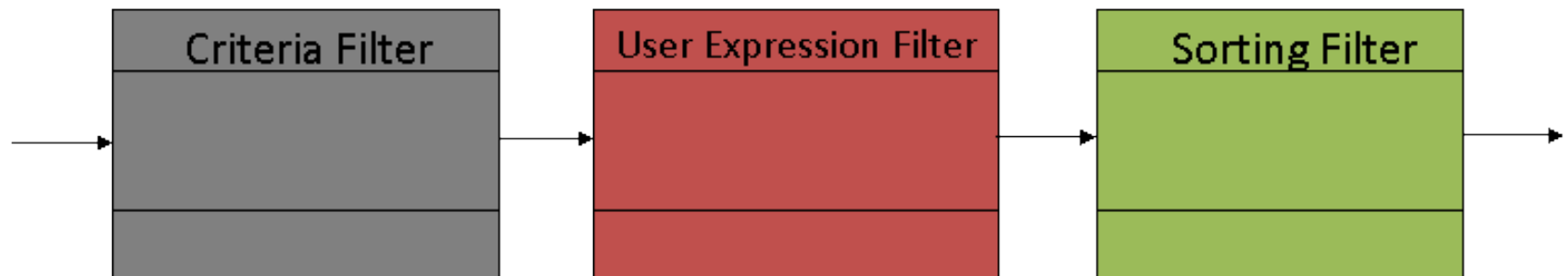


Background

- Most of the Kiwiplan products displays information (report) to the clients in the form of tables.
- Table has various capabilities – Sorting, Grouping, change the order of columns, adding or deleting columns etc.

Background

- When a report is processed, the data passes through a chain of “filters”.
- Each filter is responsible for performing a particular reporting task.
- Each query goes through the certain sequence of filters.



Motivation

- Users sometime experience slowness when viewing tables (large size) this is due to the complex pipeline structure.
- Sequential sequence of these filters makes the program quite slow for large tables.
- Clients want fast access to the information.

Motivation

- Making it efficient saves client time and hence increase product sale.
- Kiwiplan is looking forward to apply parallel processing (as provided in java 7) in other possible areas as well.

Project Goal

- To investigate the filters and parallelise them as much as possible to increase the efficiency.
- Priority is to investigate parallelism within the filters.
- Make the program flexible enough so that other Kiwiplan products efficiency could be increased with slight modifications.

Expected Outcome

- Enhance my analysis and design skills.
- Practical experience of the software development lifecycle and explore latest technology (Java 7).
- Increase my communication and time management skills.
- Familiar myself with the work environment.

Questions?