

Robotics Service Bus - Enhancement #873

Implement aggregating formatting style

02/12/2012 04:15 PM - J. Moringen

Status:	Resolved	Start date:	02/12/2012
Priority:	Low	Due date:	
Assignee:	J. Moringen	% Done:	100%
Category:	Common Lisp Tools	Estimated time:	0.00 hour
Target version:	rsb-0.7		

Description

As a generalization of the C++ logger's "monitor" mode:

- Aggregate events for formatting according to certain criteria
- Apply a formatting style to each such collection
- Format all groups when producing output

The "monitor" mode would be a special case in which events would be aggregated by scope and sub-styles would be instances of the ordinary statistics style.

Associated revisions

Revision 06a3cc4c - 02/12/2012 04:25 PM - J. Moringen

Added sub-style-for in formatting/{protocol,delegating-mixin}.lisp

refs #873

- formatting/protocol.lisp (header): updated copyright
(sub-style-for): new generic function; return a list of suitable sub-styles of a composite style
- formatting/delegating-mixin.lisp (sub-style-for delegating-mixin t):
new method; return list of sub-styles whose predicate succeeds for given event
(format-event t delegating-mixin t): use `sub-style-for'
(print-object delegating-mixin t): new method; `print-object' method for `delegating-mixin' which prints the number of sub-styles
- formatting/package.lisp (package rsb.formatting): added exported symbol sub-style-for

Revision e82471a1 - 02/12/2012 11:31 PM - J. Moringen

Support :clear directive in formatting/{types,separator-mixin}.lisp

refs #873

- formatting/types.lisp (separator-spec): allow :clear directive
- formatting/separator-mixin.lisp (header): updated copyright
(print-separator): added processing of :clear directive

Revision 299b5ebf - 02/12/2012 11:31 PM - J. Moringen

Added utility functions in stats/util.lisp

refs #873

- stats/util.lisp: new file; contains the utility functions `event-size', `event-size/power-of-2' and `event-type/simple'
- stats/quantities.lisp (define-simple-quantity throughput): use `event-size'
- stats/package.lisp (package rsb.stats): added exported symbols event-size, event-size/power-of-2 and event-type/simple

- cl-rsb-stats.asd (system cl-rsb-stats): added file stats/util.lisp;
added dependency of stats/quantities.lisp on stats/util.lisp

Revision d2dca334 - 02/12/2012 11:31 PM - J. Moringen

Added size, size/log, type quantities in stats/quantities.lisp

refs #873

- stats/quantities.lisp (define-simple-quantity size): new quantity;
moments of event sizes
(define-simple-quantity size/log): new quantity; histogram of event
sizes
(define-simple-quantity type): new quantity; histogram of event
types

Revision 1cefb7a5 - 02/22/2012 01:59 PM - J. Moringen

Removed support for :self in formatting/delegating-mixin.lisp

refs #873, #880

- formatting/protocol.lisp (delegate): new generic function; delegate
to a sub-style of a formatting style
- formatting/delegating-mixin.lisp (delegating-mixin): the sub-styles
initarg is no longer required
(delegating-mixin::sub-styles): added initarg
(shared-initialize :after delegating-mixin t): removed; special
initialization is no longer required
(setf style-sub-styles :around sequence delegating-mixin): removed;
special setter behavior is no longer required
(delegate t delegating-mixin t): new method; delegate to sub-style
(format-event t delegating-mixin t): call `delegate' method
- formatting/event-style-compact.lisp (define-compact-style): define a
method on `format-header'
- formatting/package.lisp (package :rsb.formatting): added exported
symbol delegate

Revision 8d5ed391 - 03/19/2012 02:22 PM - J. Moringen

Added format-header in formatting/protocol.lisp

refs #873, #880

- formatting/protocol.lisp (format-header): new generic function;
format a header for a thing onto a formatting target
- formatting/columns-mixin.lisp (format-header columns-mixin t): use
'format-header' for individual columns
- formatting/columns.lisp (basic-column): new class; superclass for
column classes
(format-header basic-column t): new method; format column name as
header
(define-simple-column): add superclass `basic-column'
- formatting/quantity-column.lisp (format-header quantity-column t):
new method; print column name and, later, unit, if available
- formatting/package.lisp (package rsb.formatting): added exported
symbols format-header and basic-column

Revision 4ef5150a - 03/19/2012 02:22 PM - J. Moringen

Added grouping-mixin in formatting/grouping-mixin.lisp

refs #873, #880

- formatting/grouping-mixin.lisp: new file; contains
`grouping-mixin' mixin class
- formatting/protocol.lisp (make-sub-style-entry): new generic function; create a sub-style entry for a style
- formatting/package.lisp (package rsb.formatting): added exported symbols make-sub-style-entry, grouping-mixin, style-key and style-test
- cl-rsb-formatting.asd (system cl-rsb-formatting): added file formatting/grouping-mixin.lisp

Revision bdc02ff6 - 03/19/2012 02:22 PM - J. Moringen

Added styles in file formatting/event-style-monitor.lisp

refs #873

- formatting/event-style-monitor.lisp: new file; contains
`basic-monitor' class and `style-monitor/scope',
`style-monitor/origin', `style-monitor/type' and
`style-monitor/size' classes
- cl-rsb-formatting.asd
(system connection cl-rsb-formatting-and-cl-rsb-stats): added file
formatting/event-style-monitor.lisp

Revision cf95ca5b - 03/19/2012 02:22 PM - J. Moringen

Renamed grouping-mixin -> sub-style-grouping-mixin

refs #873

- formatting/sub-style-grouping-mixin.lisp: renamed
formatting/grouping-mixin.lisp ->
formatting/sub-style-grouping-mixin.lisp
(header): changed one-line summary accordingly
(sub-style-grouping-mixin): renamed grouping-mixin ->
sub-style-grouping-mixin
- formatting/event-style-monitor.lisp (basic-monitor): changed
superclass grouping-mixin -> sub-style-grouping-mixin
- formatting/package.lisp (package rsb.formatting): changed export
symbol grouping-mixin -> sub-style-grouping-mixin
- cl-rsb-formatting.asd (system cl-rsb-formatting): changed file name
formatting/grouping-mixin.lisp ->
formatting/sub-style-grouping-mixin.lisp

Revision d6b800a5 - 03/20/2012 04:09 PM - J. Moringen

Added mixin class in formatting/sub-style-sorting-mixin.lisp

refs #873

- formatting/protocol.lisp (style-sub-styles/sorted): new generic function; return sub style of a style in a particular order
- formatting/sub-style-sorting-mixin.lisp: new file; contains the
`sub-style-sorting-mixin' mixin class
- formatting/event-style-monitor.lisp (basic-monitor): added
superclass `sub-style-sorting-mixin'; added default initargs

sort-predicate and sort-key
(format-event eql :trigger basic-monitor t): use
`style-sub-styles/sorted'
(%make-safe-predicate): new function; utility function for
generating safe comparison predicates
(%make-column-key-function): new function; utility function for
extracting the value of a particular quantity column of a column
based style
- formatting/package.lisp (package rsb.formatting): added exported
symbols style-sub-styles/sorted, sub-style-sorting-mixin,
style-sort-predicate and style-sort-key
- cl-rsb-formatting.asd (system cl-rsb-formatting): added file
formatting/sub-style-sorting-mixin.lisp

Revision 13942b14 - 03/20/2012 04:09 PM - J. Moringen

Added tests for logger in CMakeLists.txt

refs #873

- CMakeLists.txt: test logger with formatting styles
monitor/{scope,origin,type,size}

Revision c382d988 - 03/20/2012 04:09 PM - J. Moringen

Improved column titles in formatting/event-style-monitor.lisp

refs #873

- formatting/event-style-monitor.lisp (basic-monitor-style): renamed
basic-monitor -> basic-monitor-style
(format-header basic-monitor-style t): changed specializer
basic-monitor -> basic-monitor-style
(format-event eql :trigger basic-monitor-style t): likewise
(basic-columns): new variable; stores some common column
specifications
(define-monitor-style): accept arbitrary initargs; generate column
title more flexibly; use compact specifications via **basic-columns**

Revision 495cf5de - 03/22/2012 04:30 AM - J. Moringen

Added class column-constant in formatting/columns.lisp

refs #873, #880

- formatting/columns.lisp (column-constant): new class; emit constant
value
(format-event t column-constant t): new method; emit the value
- formatting/package.lisp (package rsb.formatting): added exported
symbols column-constant, column-value and column-formatter

Revision bcac2cef - 03/22/2012 04:30 AM - J. Moringen

Use column-constant in formatting/event-style-monitor.lisp

refs #873

- formatting/event-style-monitor.lisp (define-monitor-style): removed
title parameter; use `column-constant' for the aggregating column

Revision 327f4e8c - 03/28/2012 03:07 PM - J. Moringen

Updated initarg blacklist in formatting/help.lisp

refs #873, #880

- formatting/help.lisp (make-style-help-string): added initargs
sort-predicate and sort-key to blacklist

Revision 51cca974 - 03/28/2012 03:07 PM - J. Moringen

Improved sub-style-for in formatting/sub-style-grouping-mixin.lisp

refs #873, #880

- formatting/sub-style-grouping-mixin.lisp
(sub-style-for sub-style-grouping-mixin t): after adding the
sub-style, retry the next method instead of initiating a new call to
'sub-style-for'

Revision cb7dc506 - 03/30/2012 06:26 PM - J. Moringen

Moved **basic-columns** to formatting/columns.lisp

refs #873

- formatting/columns.lisp (**basic-columns**): new variable; moved from
formatting/event-style-monitor.lisp
- formatting/event-style-monitor.lisp (**basic-columns**): removed;
moved to formatting/columns.lisp (define-monitor-style): adapted to
changed names
- formatting/event-style-statistics.lisp (define-statistics-style):
process templates contained in ``basic-columns'' to abbreviate
specifications

Revision 82aa4100 - 03/30/2012 06:26 PM - J. Moringen

Homogenized column widths in formatting/columns.lisp

fixes #873

- formatting/columns.lisp (**basic-columns**): homogenized column widths
- formatting/event-style-statistics.lisp (define-statistics-style):
use new column specs
- formatting/event-style-monitor.lisp (define-monitor-style):
likewise; added alias "monitor" for "monitor/scope"

Revision ba3185d0 - 04/10/2012 08:55 PM - J. Moringen

Dynamic width support in formatting/event-style-monitor.lisp

refs #873

- formatting/event-style-monitor.lisp (basic-monitor-style::columns):
new slot; stores column specification for creating sub-styles
(make-sub-style-entry basic-monitor-style t): new method; now
specialized for superclass one instead of for every subclass
(define-monitor-style): process columns spec
(define-dynamic-width-monitor-style): new local macro; define
monitor style with width-based dispatching
(define-monitor-style scope): define a dynamic width monitor style
(define-monitor-style origin): likewise
(define-monitor-style type): likewise
(define-monitor-style size): likewise

History

#1 - 02/14/2012 01:38 PM - J. Moringen

- % Done changed from 30 to 70

#2 - 03/02/2012 02:06 PM - J. Moringen

- Target version changed from 0.6 to rsb-0.7

#3 - 03/20/2012 03:32 PM - J. Moringen

- Subject changed from Implement aggregating formatting mode to Implement aggregating formatting style

- % Done changed from 70 to 90

#4 - 03/30/2012 01:24 PM - J. Moringen

Alias monitor for monitor/scope is still missing.

#5 - 03/30/2012 06:30 PM - J. Moringen

- Status changed from In Progress to Resolved
- % Done changed from 90 to 100

Applied in changeset r3501.