Compliant Control Architecture - Feature #2046
Allow to expose virtual / simulation time via external beat

10/07/2014 03:37 PM - Anonymous

Status:	Resolved		**Start date:**	10/07/2014
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	cca0.5			

Description

- Probably calls for a new data type (rst beat)
- Export virtual time in component API

Associated revisions

Revision 776 - 10/08/2014 05:58 PM - anordman

Beat and components got support for virtual (e.g. simulation) time

- Adds Tick data type, that is now sent by an external beat (superseeding the string hack)
  - Contains sequence number, timestamps and timesteps (real time and optionally virtual time)
- Adds heartbeat concept, sending ticks to components locally or remotely (or both)
- Components provide API to access (amongst others)
  - Global circuit sequence number
  - Global circuit real time (of the beat provider)
  - Global circuit virtual (e.g. simulation) time
- Added examples for local and remote beat, using the added features

fixes #2046

Revision 783 - 04/08/2015 11:20 AM - anordman

Some fixes with cca beat

- Fixed type of component beat input port
- Tick now with print method
- Adapted beat provider tests accordingly

refs #2046

History

#1 - 10/08/2014 05:58 PM - Anonymous

- Status changed from New to Resolved

- % Done changed from 0 to 100

Applied in changeset cca|r776.