

Looking for examples with large reference results:

Electrical		55,5%	1,1 GiB
PowerConverters		53,3%	585,5 MiB
Examples		100,0%	585,5 MiB
ACDC		51,8%	303,4 MiB
RectifierBridge2mPulse		43,7%	132,6 MiB
ThyristorBridge2mPulse_DC_Drive		73,9%	98,0 MiB
ThyristorBridge2mPulse_RLV_Characteristic		25,0%	33,1 MiB
ThyristorBridge2mPulse_RL		0,3%	352,7 KiB
ThyristorBridge2mPulse_RLV		0,3%	348,7 KiB
HalfControlledBridge2mPulse		0,2%	328,7 KiB
ThyristorBridge2mPulse_R		0,2%	328,7 KiB
DiodeBridge2mPulse		0,1%	168,8 KiB
RectifierBridge2mPulse		22,8%	69,3 MiB
RectifierCenterTap2mPulse		10,7%	32,3 MiB
RectifierCenterTapmPulse		10,5%	31,8 MiB
RectifierCenterTap2mPulse		6,6%	20,0 MiB
Rectifier1Pulse		5,8%	17,5 MiB
ACAC		29,6%	173,6 MiB
DCDC		15,7%	92,0 MiB
DCAC		2,8%	16,6 MiB
Machines		36,3%	399,0 MiB
Batteries		4,0%	43,7 MiB
Analog		3,3%	36,5 MiB
Spice3		1,5%	17,0 MiB
Polyphase		1,0%	10,6 MiB
QuasiStatic		0,3%	3,6 MiB
Digital		0,3%	3,3 MiB

Implement a first test as PR “PrepCI”:

- Modelica.Electrical.PowerConverters.Examples.ACDC.RectifierBridge2mPulse.
  - ThyristorBridge2mPulse\_DC\_Drive  
interval = 200  $\mu$ s is necessary to provide properly sampled trajectories for normal users. StopTime=15 s produces 75 k result points. ComparisonSignals can be reduced. Extending this example in ModelicaTest, with an extended experiment annotation, providing a `__MAPLib_ComparisonWindow={2.45, 2.55}` s with same interval producing 500 result points. Using the full set of ComparisonSignals as used before in MSL.
  - ThyristorBridge2mPulse\_RLV\_Characteristic  
interval = 200  $\mu$ s is necessary to provide properly sampled trajectories for normal users. StopTime=10 s produces 50 k result points. ComparisonSignals can be reduced. Extending this example in ModelicaTest, with an extended experiment annotation, providing a `__MAPLib_ComparisonWindow={4.95, 5.05}` s with same interval producing 500 result points. Using the full set of ComparisonSignals as used before in MSL.

Both examples show a quasi-static characteristic over a rather long simulation time with switching PE. To look closely at details of the ComparisonSignals, in ModelicaTest a rather short ComparisonWindow is chosen during a period where the main influence is switching, not transients.

D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACAC\SoftStarter\SoftStarter.csv	99,1 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierBridge2mPulse\ThyristorBridge2mPulse_DC_Drive\ThyristorBridge2mPulse_DC_Drive.csv	98,0 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\DCDC\HBridge\HBridge_DC_Drive\HBridge_DC_Drive.csv	80,0 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierBridge2Pulse\ThyristorBridge2Pulse_DC_Drive\ThyristorBridge2Pulse_DC_Drive.csv	48,7 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACAC\Dimmer_R\Dimmer_R.csv	37,4 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACAC\Dimmer_RL\Dimmer_RL.csv	37,0 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierBridge2mPulse\ThyristorBridge2mPulse_RLV_Characteristic\ThyristorBridge2mPulse_RLV_Char...	33,1 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierCenterTap2mPulse\ThyristorCenterTap2mPulse_RLV_Characteristic\ThyristorCenterTap2mPuls...	31,2 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierCenterTapmPulse\ThyristorCenterTapmPulse_RLV_Characteristic\ThyristorCenterTapmPuls...	30,7 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierBridge2Pulse\ThyristorBridge2Pulse_RLV_Characteristic\ThyristorBridge2Pulse_RLV_Characteris...	19,6 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\RectifierCenterTap2Pulse\ThyristorCenterTap2Pulse_RLV_Characteristic\ThyristorCenterTap2Puls...	19,2 MiB
D:\DataSVN\git.GitHub\ahaumer\MAP-LIB_ReferenceResults\Modelica\Electrical\PowerConverters\Examples\ACDC\Rectifier1Pulse\Thyristor1Pulse_R_Characteristic\Thyristor1Pulse_R_Characteristic.csv	17,3 MiB

- Modelica.Electrical.PowerConverters.Examples.

- ACAC.SoftStarter ✓
  - interval = 100  $\mu$ s relaxed to 200  $\mu$ s (necessary to provide properly sampled trajectories). StopTime=10 s produces 50 k result points. ComparisonSignals can be reduced. Extending this example in ModelicaTest, with an extended experiment annotation, providing a \_\_MAPLib\_ComparisonWindow={2.5, 2.6} s with same interval producing 500 result points. Using the full set of ComparisonSignals as used before in MSL.
- ACAC.Dimmer\_R ✓
  - interval = 100  $\mu$ s relaxed to 200  $\mu$ s (necessary to provide properly sampled trajectories). StopTime=8 s produces 40 k result points. ComparisonSignals can be reduced. Extending this example in ModelicaTest, with an extended experiment annotation, providing a \_\_MAPLib\_ComparisonWindow={2.9, 3.0} s with same interval producing 500 result points. Using the full set of ComparisonSignals as used before in MSL.
- ACAC.Dimmer\_RL ✓
  - interval = 100  $\mu$ s relaxed to 200  $\mu$ s (necessary to provide properly sampled trajectories). StopTime=8 s produces 40 k result points. ComparisonSignals can be reduced. Extending this example in ModelicaTest, with an extended experiment annotation, providing a \_\_MAPLib\_ComparisonWindow={2.9, 3.0} s with same interval producing 500 result points. Using the full set of ComparisonSignals as used before in MSL.
- ACDC.Rectifier1Pulse.Thyristor1Pulse\_R\_Characteristic
- ACDC.RectifierCenterTap2Pulse.ThyristorCenterTap2Pulse\_RLV\_Characteristic
- ACDC.RectifierCenterTapmPulse.ThyristorCenterTapmPulse\_RLV\_Characteristic
- ACDC.RectifierCenterTap2mPulse.ThyristorCenterTap2mPulse\_RLV\_Characteristic
- ACDC.RectifierBridge2Pulse.ThyristorBridge2Pulse\_RLV\_Characteristic
- ACDC.RectifierBridge2Pulse.ThyristorBridge2Pulse\_DC\_Drive
- ACDC.RectifierBridge2mPulse.ThyristorBridge2mPulse\_RLV\_Characteristic ✓ see page 1
- ACDC.RectifierBridge2mPulse.ThyristorBridge2mPulse\_DC\_Drive ✓ see page 1
- DCDC.HBridge.HBridge\_DC\_Drive ✓
  - interval = 200  $\mu$ s is necessary to provide properly sampled trajectories for normal users. StopTime=24 s produces 120 k result points. ComparisonSignals can be reduced. Extending this example in ModelicaTest, with an extended experiment annotation, providing a \_\_MAPLib\_ComparisonWindow={4.0, 4.1} s with same interval producing 500 result points. Using the full set of ComparisonSignals as used before in MSL.