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Chapter 1

Documentation

10.02.2012 wrote E-Mail to Andrew about performance problems and wavelenght computation error in **fuenfincr256_1**
started some runs with higher central delta and broader smoothing lenghts, i.e. 32/dx and 100/dx; all 128 resolution except second last one (same seed!):

83492	0.60500	d31c_1_sta	harre	r	02/10/2012	15:19:56	intel.q@astro18	16
83493	0.60500	d31c_2_sta	harre	r	02/10/2012	15:20:37	intel.q@astro29	16
83494	0.60500	d31c_3_sta	harre	r	02/10/2012	15:21:17	intel.q@astro25	16
83495	0.60500	d51c_s1100	harre	r	02/10/2012	15:23:21	intel.q@astro31	16
83496	0.54786	d3+3c_s150	harre	r	02/10/2012	15:37:13	intel.q@astro12	16
83497	0.60500	d3+3c_s150	harre	r	02/10/2012	15:39:16	intel.q@astro30	32
83498	0.60500	d15+3c_s15	harre	r	02/10/2012	15:44:23	intel.q@astro30	16

09.02.2012 drd5_r256 last written to hdf5 file feb 09, 05:07
fuenfincr256_2 last written to hdf5 file feb 06, 03:28
drd5_r256_2 last written to hdf5 file feb 07, 00:50

02.02.2012 drdx_h100_128_1 run has again severe consistency metric problem
→ not clear why
upper python script does not work, was commented out again
plan: **move to python scripts in general in order to have easier arithmetic calculations**
plan: create new folder structure and remove old simulations → done

31.01.2012 note: h=70.3 in galacticus xml input file is expected, consistent tree obviously implies it
→ fixed: changed in markus parameter file for the converter and in xml file

→ question: why not read out?
→ python updateGalacticusStart.py from Markus

30.01.2012 new consistenttree with vmax=20

Chapter 2

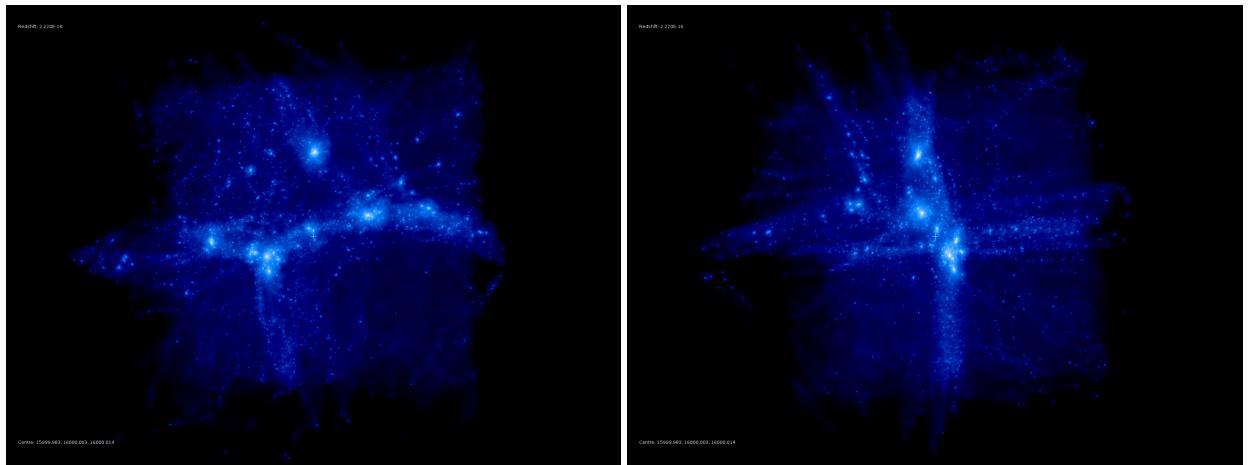
Simulations

2.1 r128

2.1.1 h70

2.1.2 h100

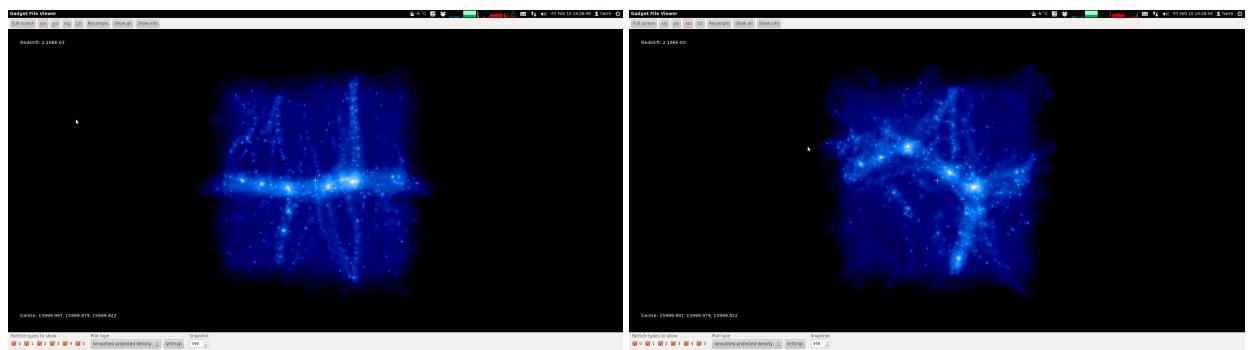
drdx_3



ROCKSTARRED ✓

pfff → Error: too few halos at scale factor 0.926072 to calculate consistency metric.

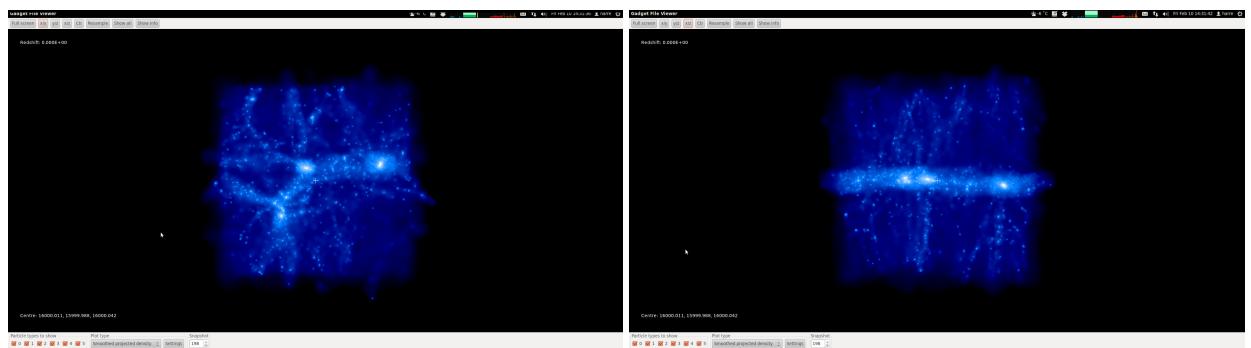
drdx_h100_r128_1



ROCKSTARRED ✓

consistenttree: too few halos at scale factor 0.896 ... → wtf?

drdx_h100_r128_2



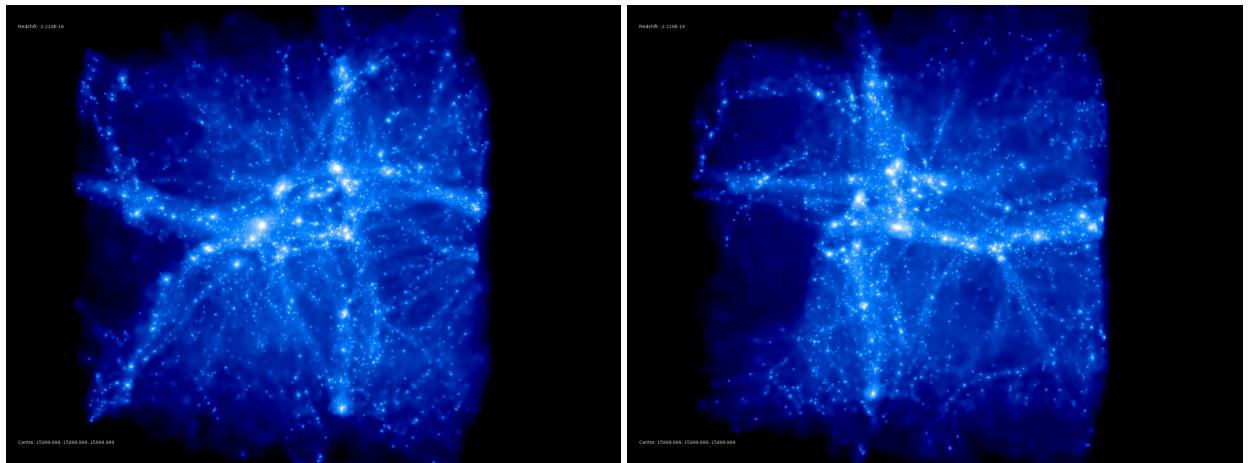
is being rockstarred

2.2 r256

2.2.1 h70

2.2.2 h100

drd5_r256

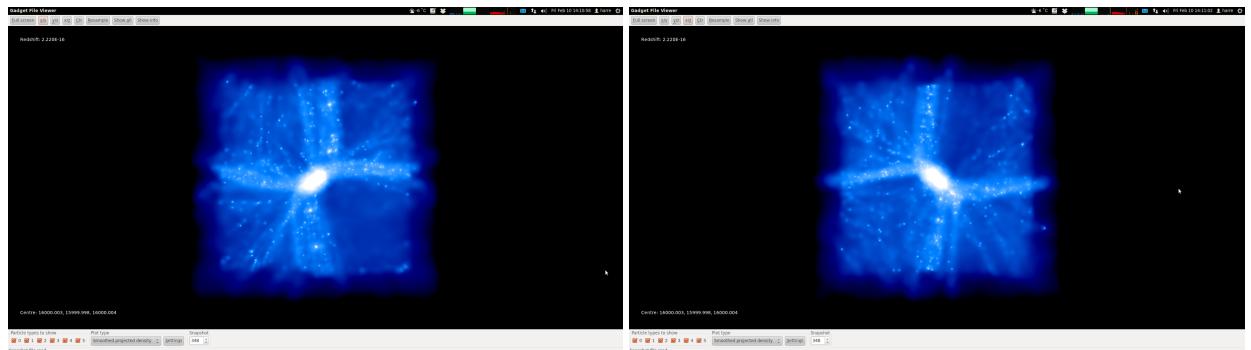


ROCKSTARRED ✓
CONSISTENTTREE ✓
GALACTICUS:

```
Fatal error in Build_Descendent\_Pointers():
failed to find descendent node: 5546454 of 5522259
galacticus.sh: line 67: 25689 Aborted
```

tree copied to markus transfer
→ re-converted with bugfixed converter
galacticus running on SGE

drd5_r256_2 → dump!



ROCKSTARRED ✓ (lasted about 9000minutes)

CONSISTENTTREE ✓

is being galacticussed → job seems to run!

no: A fatal error occurred! Backtrace for this error:

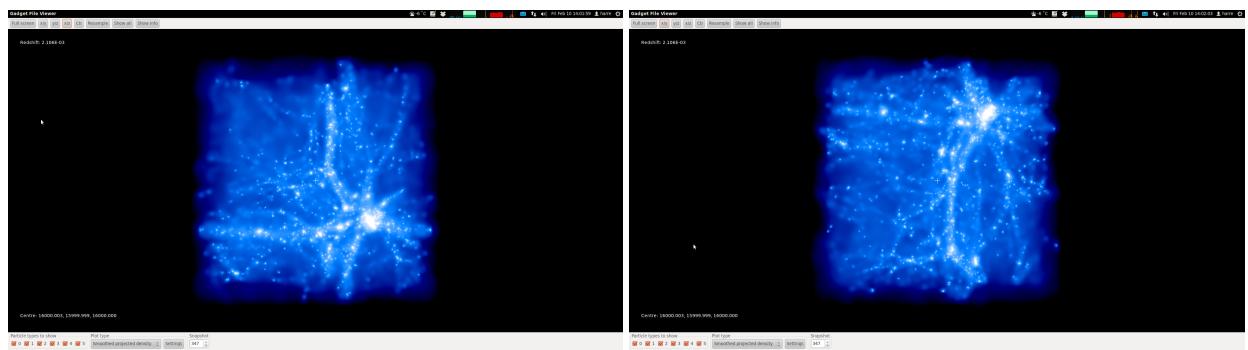
```
#0 0x2B3F2E65E897
#1 0x2B3F2E65EE4E
#2 0x301763648F
#3 0x487AA0 in __merger_tree_read_MOD_build_descendent_pointers
#4 0x48ADC3 in __merger_tree_read_MOD_merger_tree_read_do
#5 0x48205E in __merger_tree_construction_MOD_merger_tree_create
#6 0x46F469 in __galacticus_tasks_evolve_tree_MOD_galacticus_task_evolve_tree._omp_
.F90:0
#7 0x46F9C4 in __galacticus_tasks_evolve_tree_MOD_galacticus_task_evolve_tree
#8 0x46FA4F in __galacticus_tasks_MOD_galacticus_task_do
#9 0x4600E4 in MAIN__ at Galacticus.F90:0
```

→ re-converted with bugfixed converter (v0.3)

galacticus running on SGE

→ gadgetviewer: simulation has "artificial" cross → DUMP IT ?

fuenfincr256_1



ROCKSTARRED ✓
 CONSISTENTTREE ✓
 GALACTICUS:

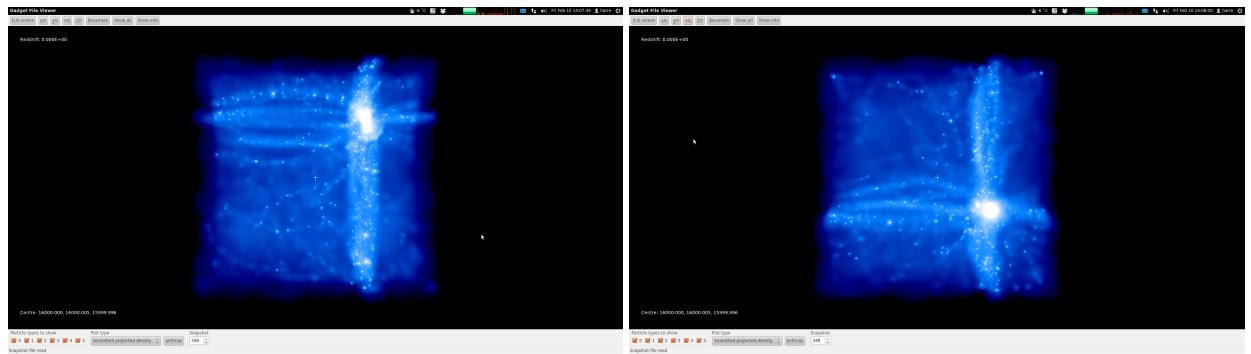
```
Fatal error in Build_Descendent_Pointers():
failed to find descendent node: 12048576 of 12014628
galacticus.sh: line 67: 5751 Aborted
```

tree copied to markus transfer
 → re-converted with bugfixed converter

```
Running model.....
Reading data for metallicity log10(Z/Z_Solar) = 0.198
Found 188 ages in the file
Found 1963 wavelengths in the file
gsl: ../../../../../../roots/brent.c:57: ERROR: function value is not finite
Default GSL error handler invoked.
```

→ E-Mail to Andrew

fuenfincr256_2 → dump!



ROCKSTARRED ✓ (lasted about 9000minutes)

CONSISTENTTREED ✓

is being galacticussed → job seems to run!

GALACTICUS:

```
Fatal error in Build_Descendent_Pointers():
failed to find descendent node
```

→ re-converted with bugfixed converter (v0.3)

galacticus running on SGE → gadgetviewer: simulation has "artificial" cross
on right upper corner → DUMP IT ?