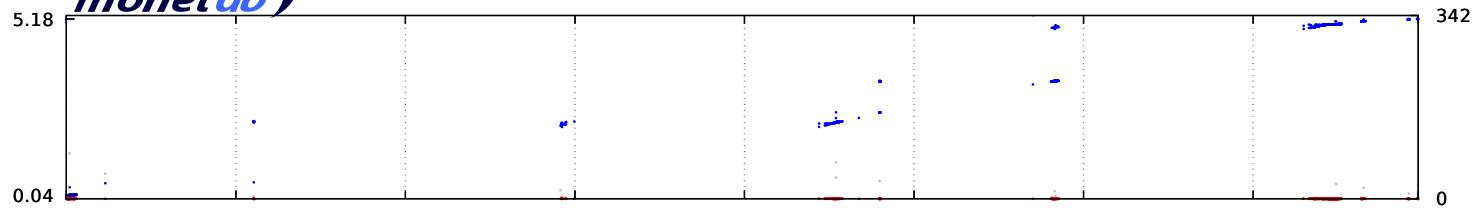
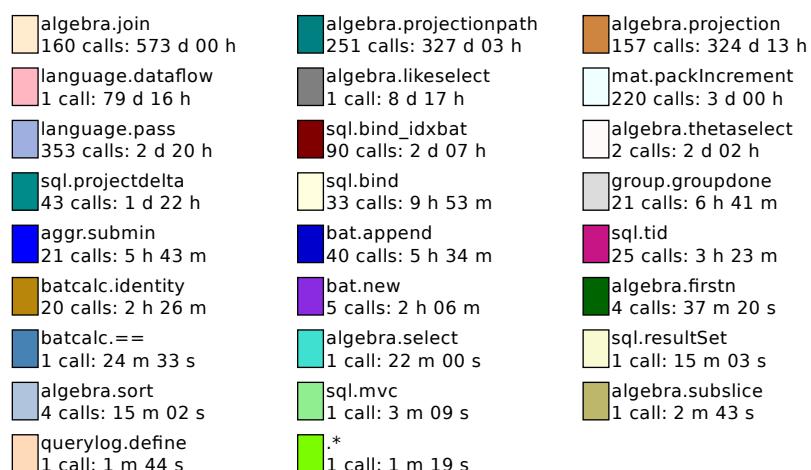
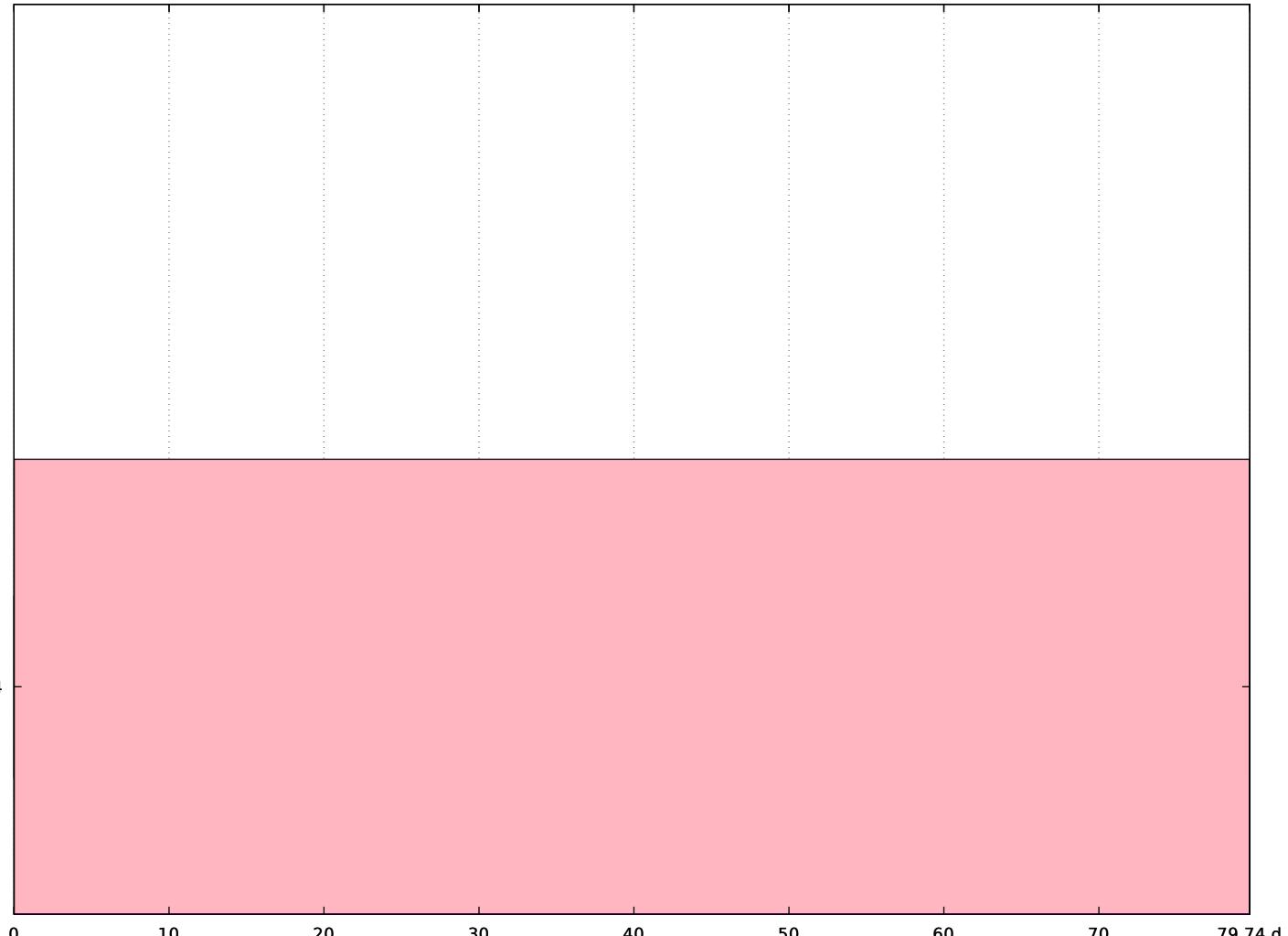
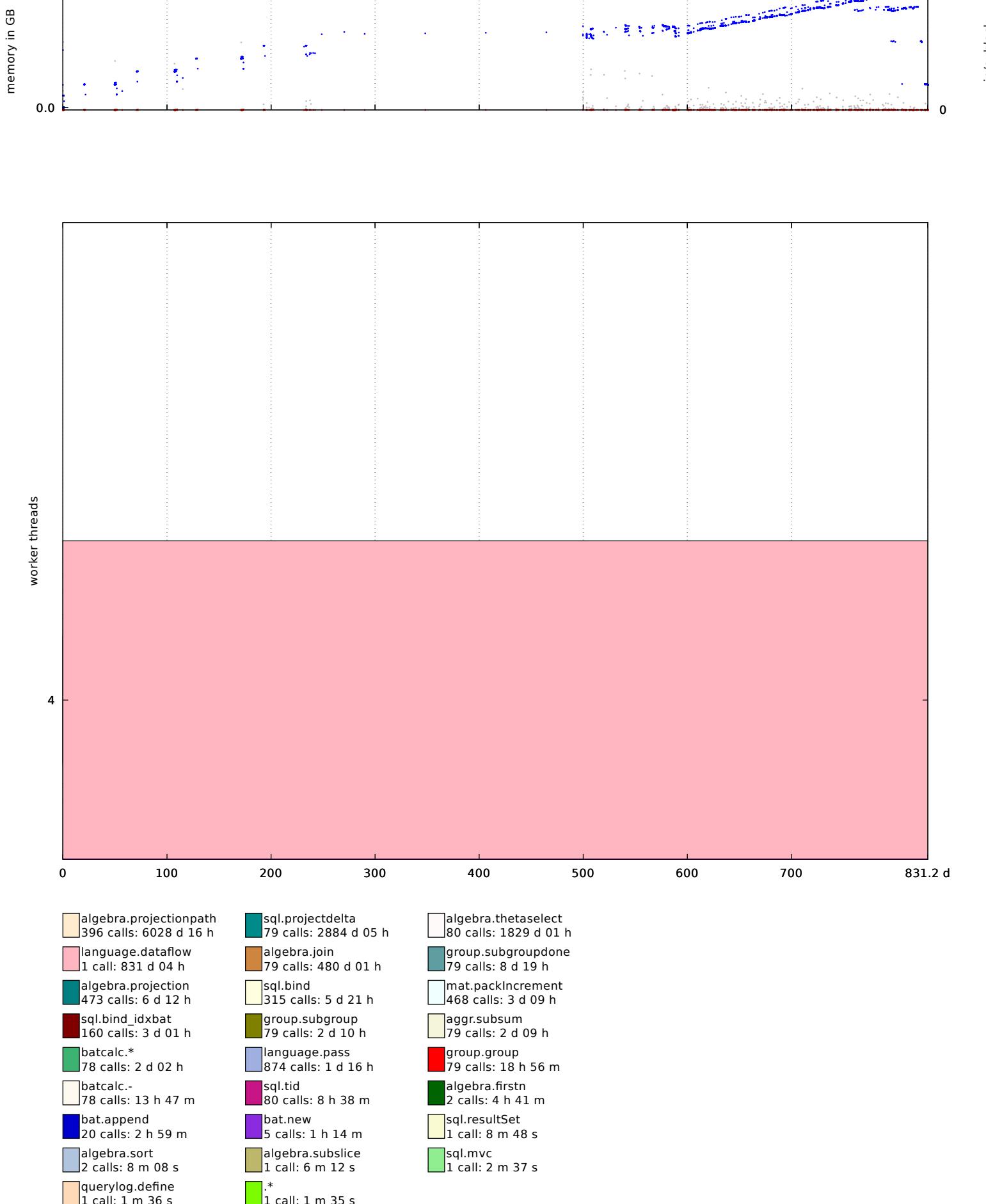


memory in GB

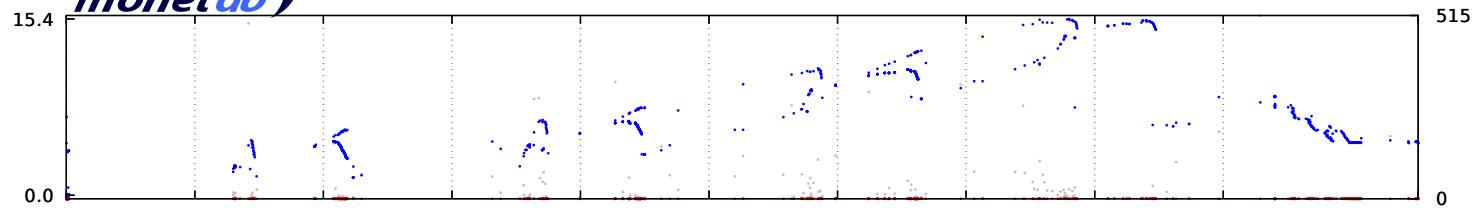


worker threads

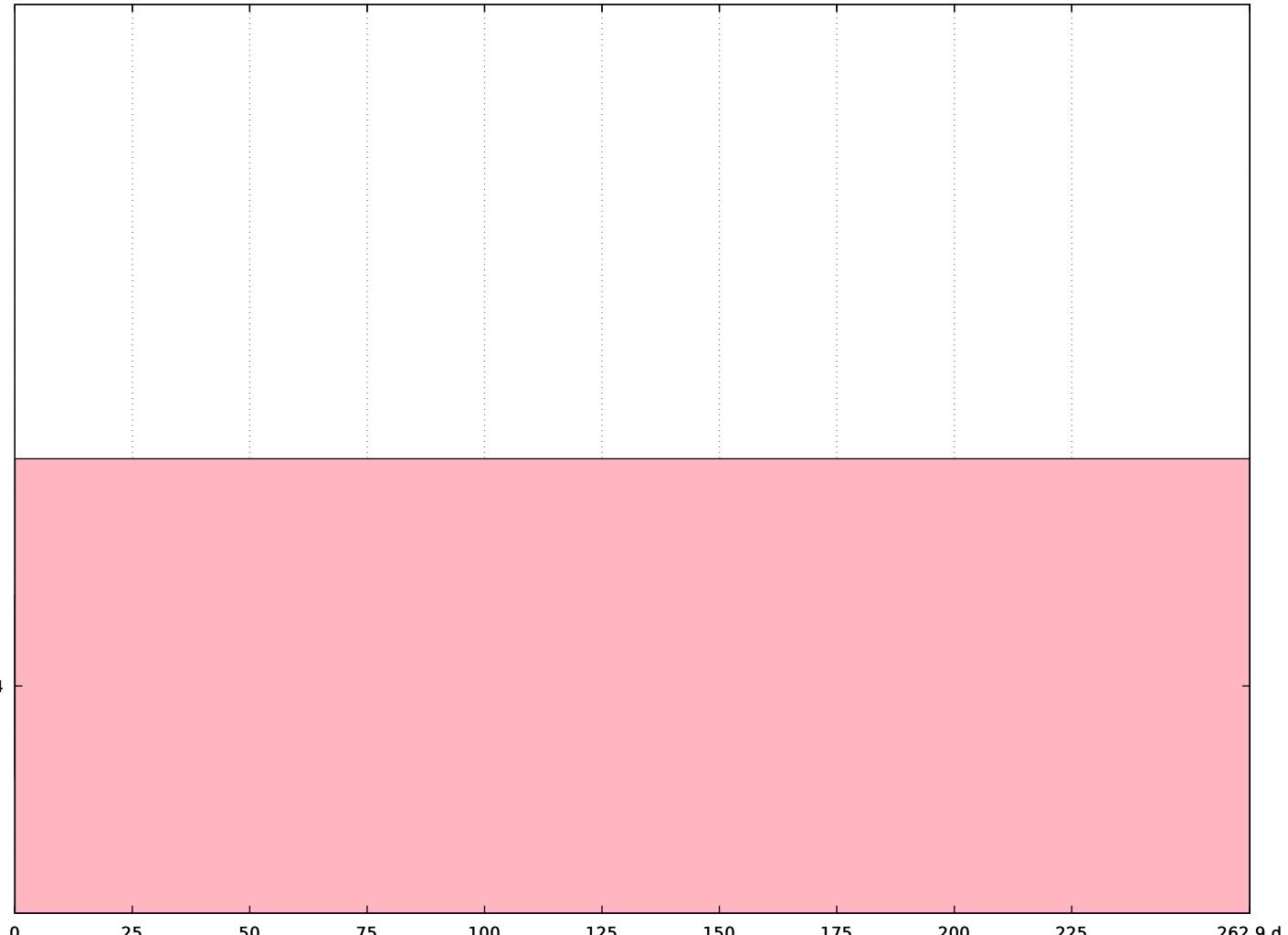




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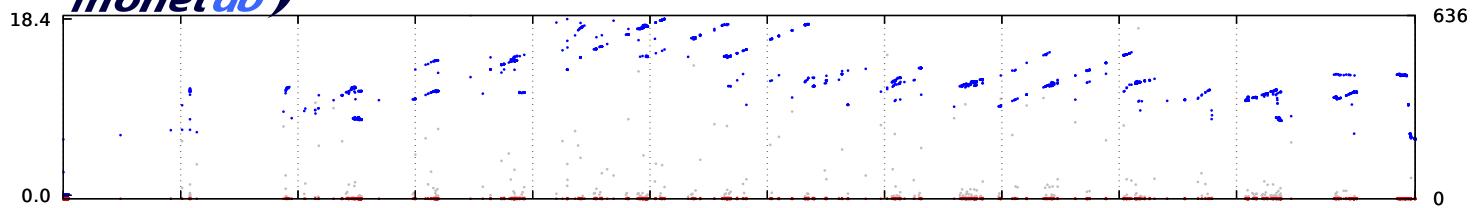


worker threads

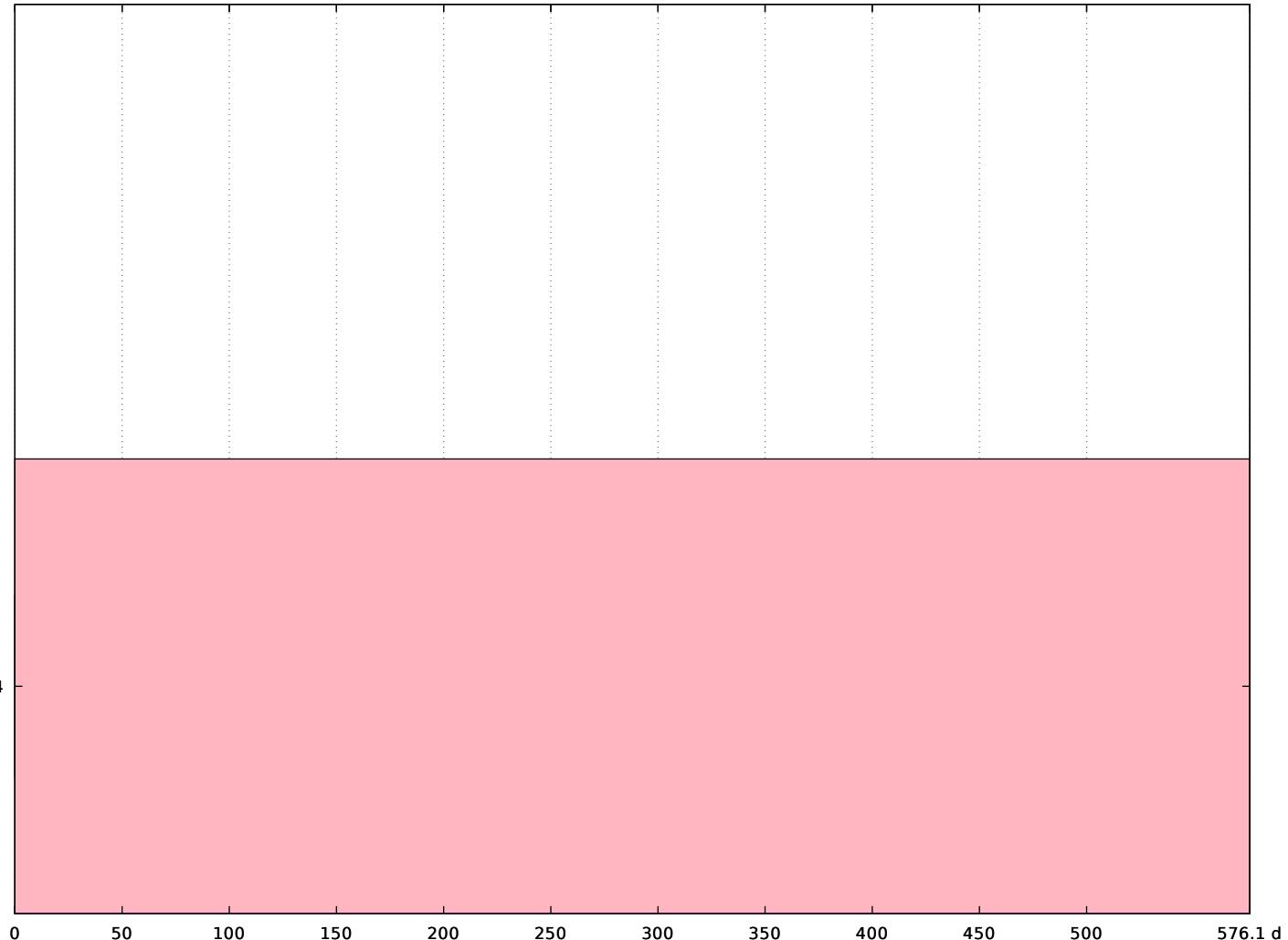


batcalc.<	algebra.projectionpath	algebra.select
78 calls: 2495 d 05 h	80 calls: 1292 d 04 h	79 calls: 424 d 22 h
language.dataflow	algebra.join	algebra.intersect
1 call: 262 d 21 h	78 calls: 262 d 03 h	1 call: 5 d 08 h
mat.packIncrement	sql.bind	group.groupdone
78 calls: 3 d 02 h	237 calls: 2 d 21 h	1 call: 1 d 11 h
algebra.projection	aggr.subcount	language.pass
160 calls: 1 d 03 h	1 call: 7 h 48 m	86 calls: 5 h 34 m
sql.tid	bat.new	bat.append
79 calls: 4 h 46 m	5 calls: 33 m 57 s	10 calls: 31 m 26 s
sql.resultSet	algebra.sort	querylog.define
1 call: 4 m 48 s	1 call: 4 m 16 s	1 call: 2 m 08 s
sql.mvc	bat.mirror	.*
1 call: 2 m 01 s	1 call: 1 m 03 s	1 call: 1 m 00 s

memory in GB



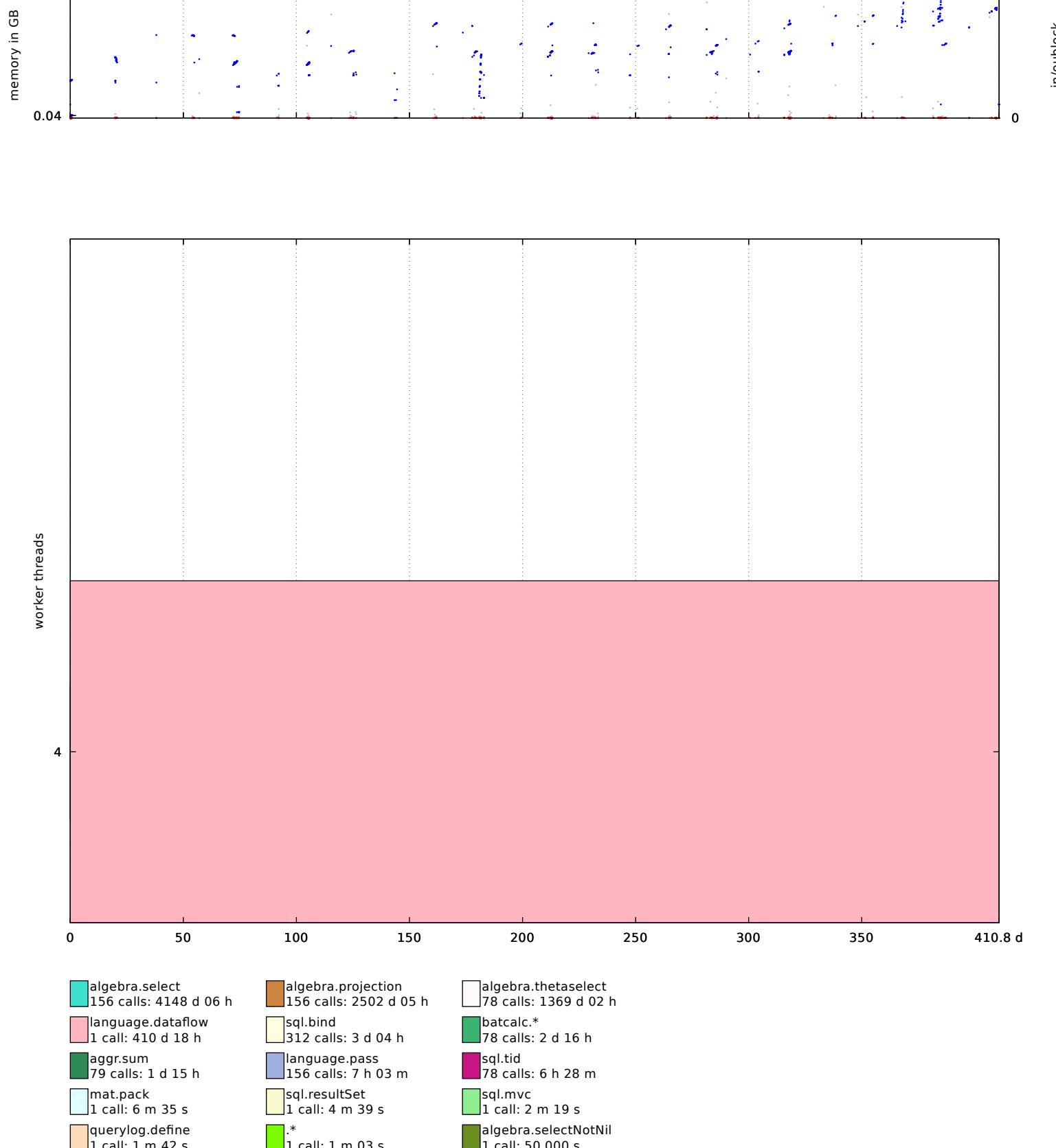
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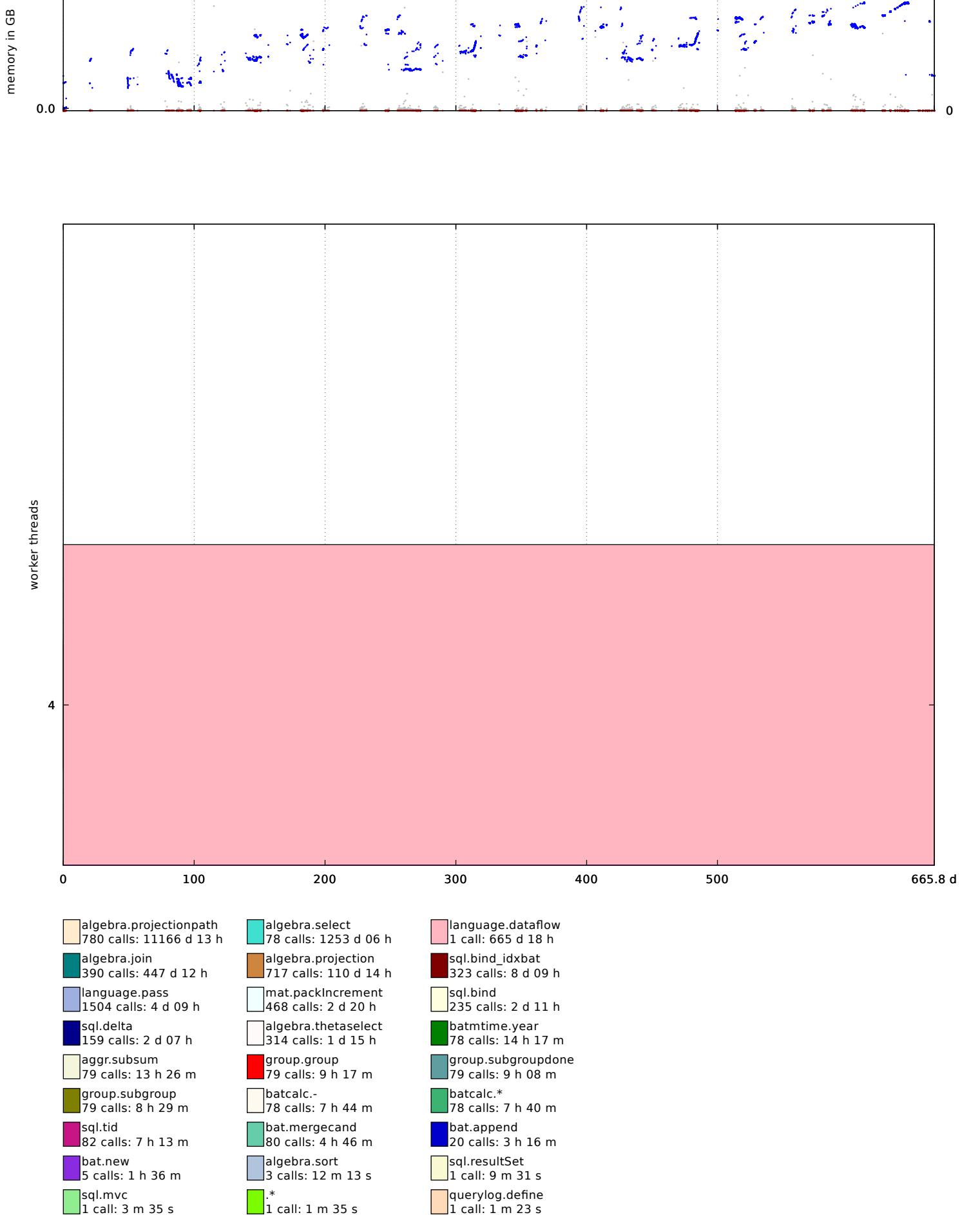


algebra.projectionpath 392 calls: 5320 d 15 h	language.dataflow 1 call: 576 d 02 h	mat.packIncrement 156 calls: 22 d 17 h
language.pass 873 calls: 1 d 23 h	sql.projectdelta 159 calls: 27 d 22 h	sql.bind_idxbat 323 calls: 13 d 14 h
sql.tid 83 calls: 9 h 06 m	sql.bind 161 calls: 1 d 16 h	group.groupdone 79 calls: 8 h 55 m
batcalc.- 78 calls: 6 h 42 m	bat.new 5 calls: 1 h 55 m	sql.resultSet 1 call: 5 m 05 s
sql.mvc 1 call: 9 m 12 s	*	*
algebra.thetaselect 1 call: 2 m 19 s		

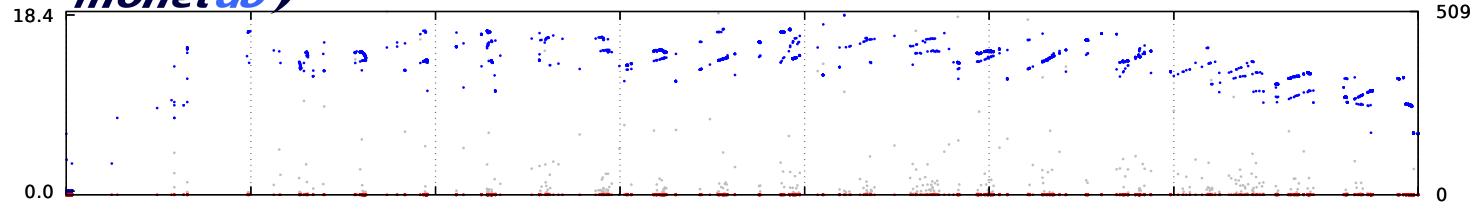
algebra.join 313 calls: 2600 d 00 h	algebra.projection 394 calls: 2160 d 21 h
sql.bind 161 calls: 1 d 16 h	algebra.select 79 calls: 27 d 20 h
group.groupdone 79 calls: 8 h 55 m	batcalc.== 78 calls: 6 d 15 h
sql.resultSet 1 call: 5 m 05 s	aggr.subsum 79 calls: 10 h 41 m
*	batcalc.* 78 calls: 7 h 03 m

bat.append
10 calls: 1 h 07 malgebra.sort
1 call: 3 m 52 squerylog.define
1 call: 1 m 01 s

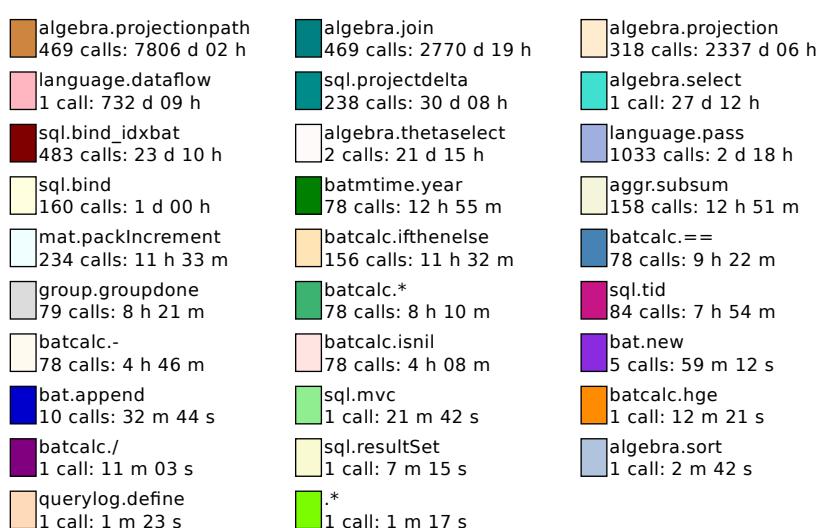
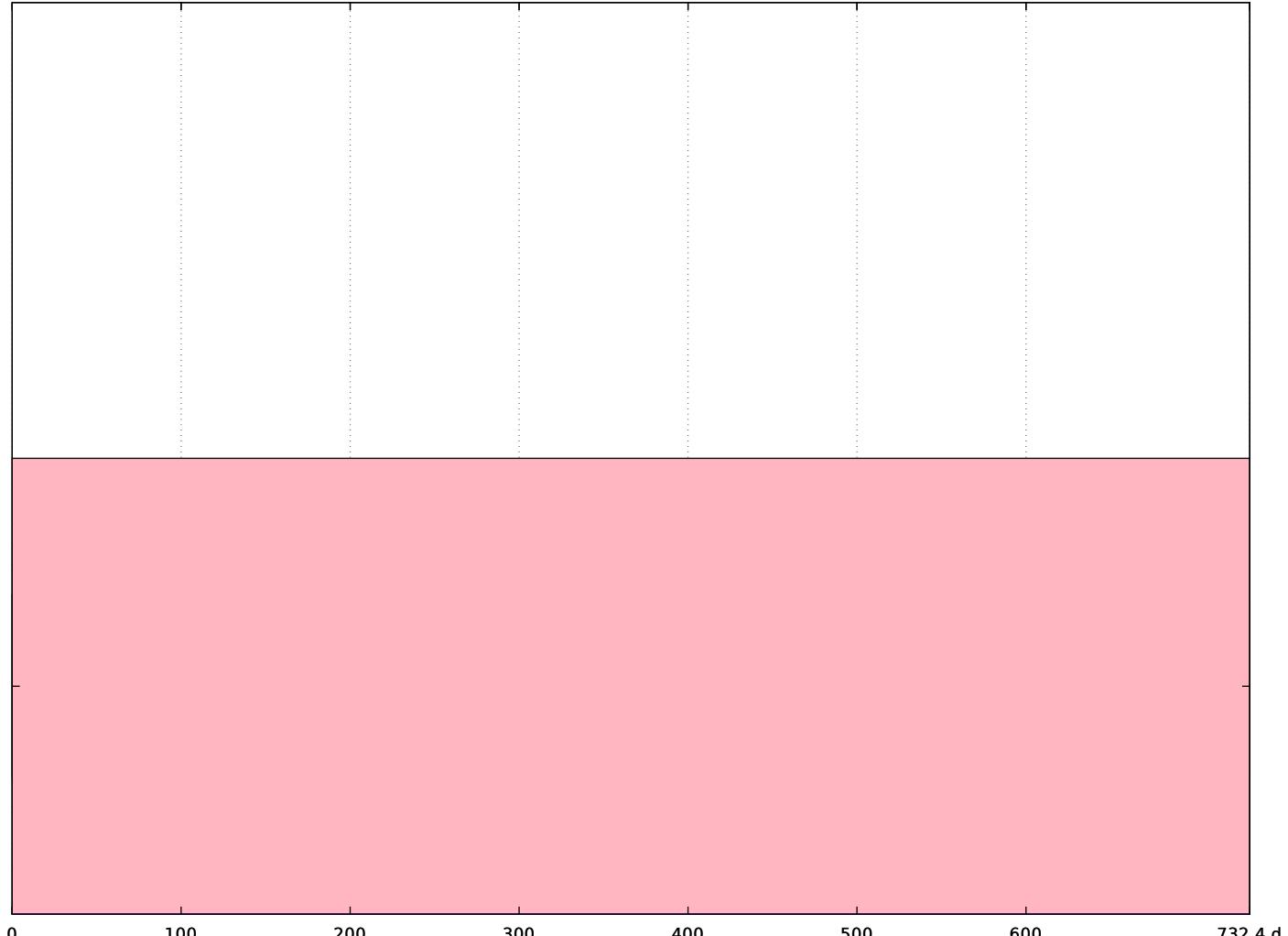


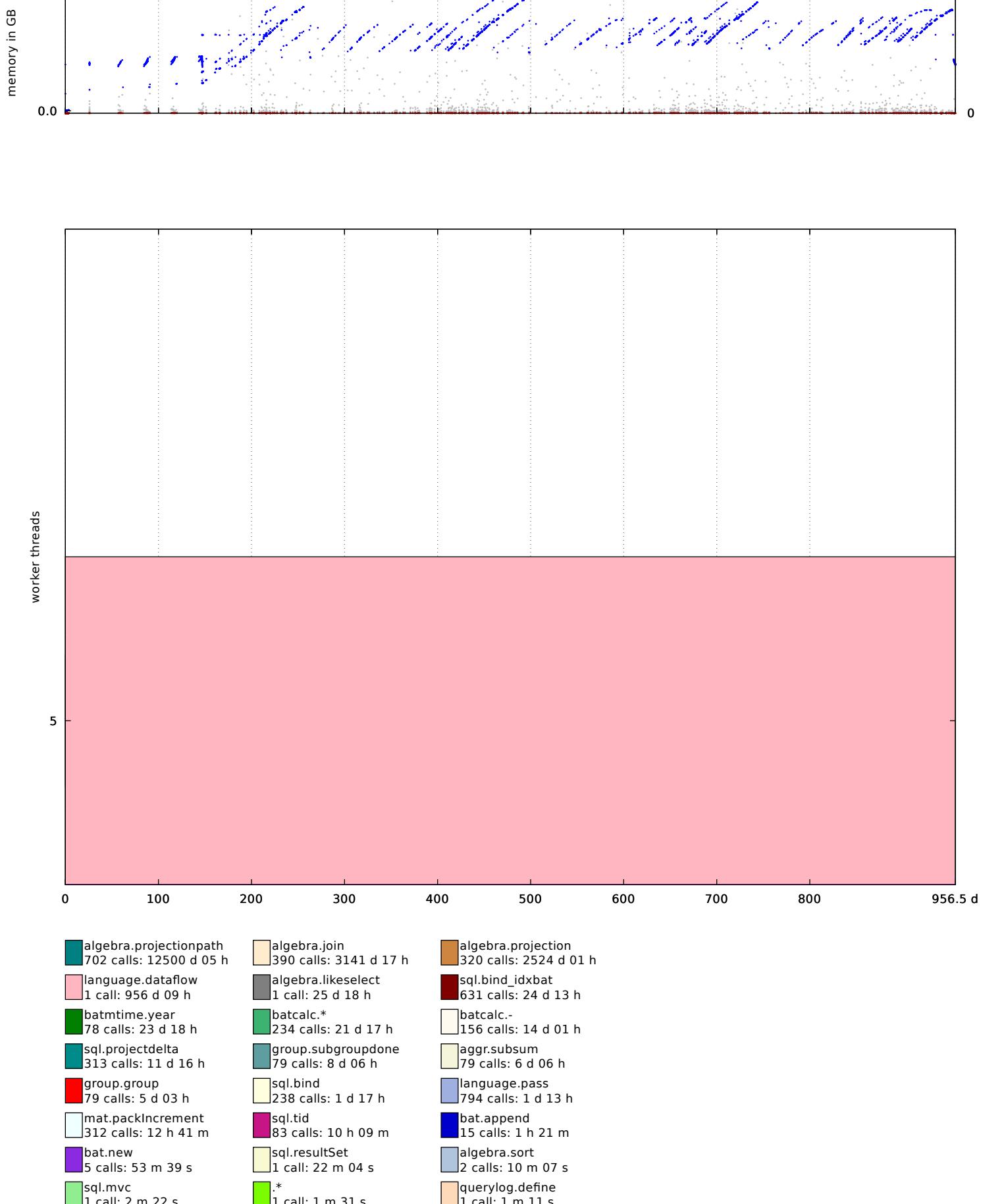


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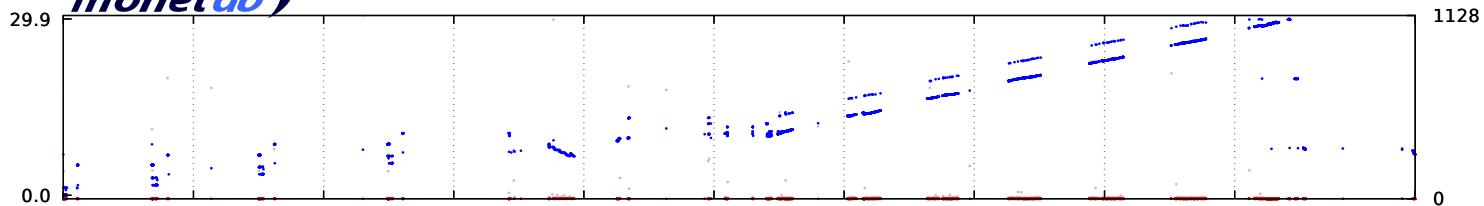


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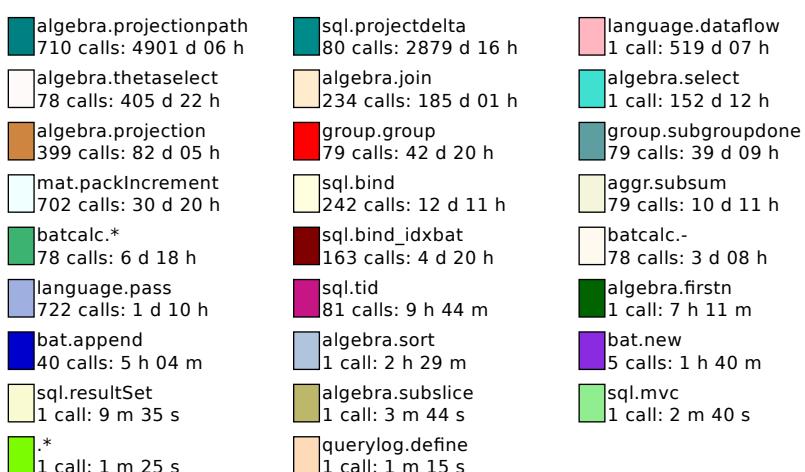
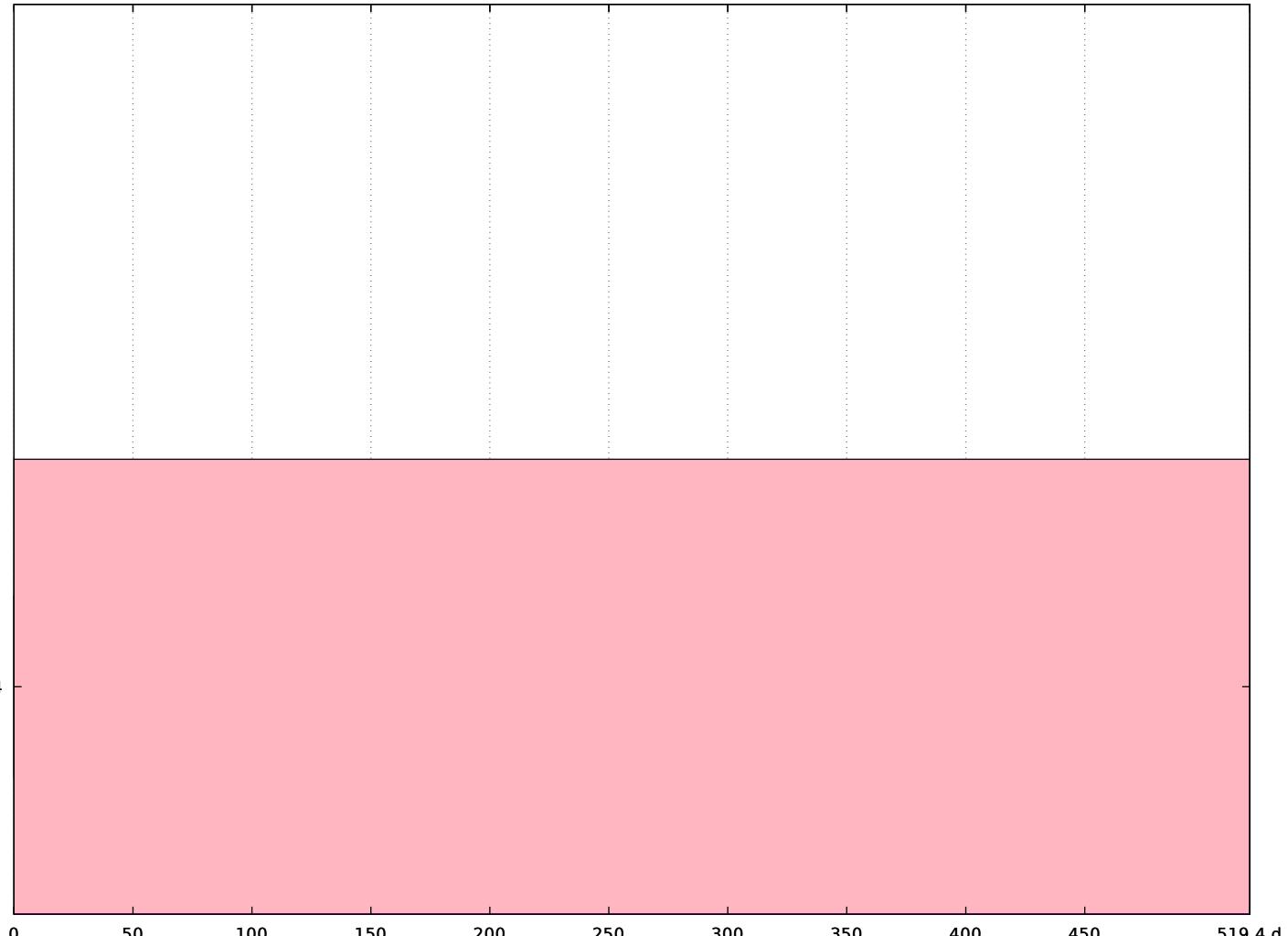




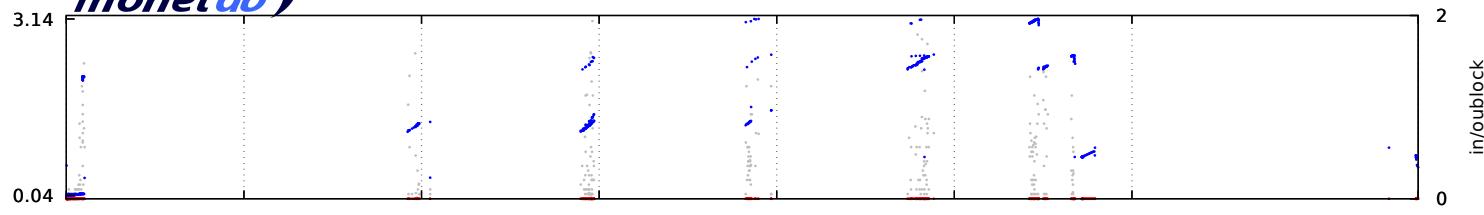
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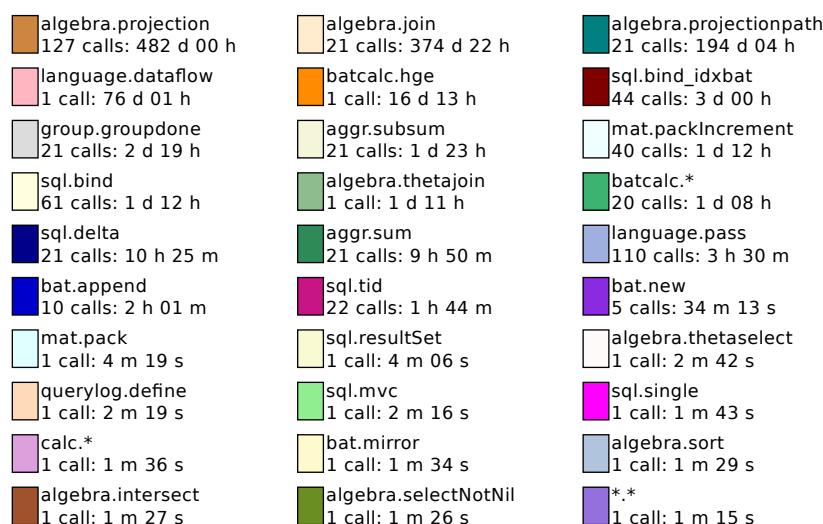
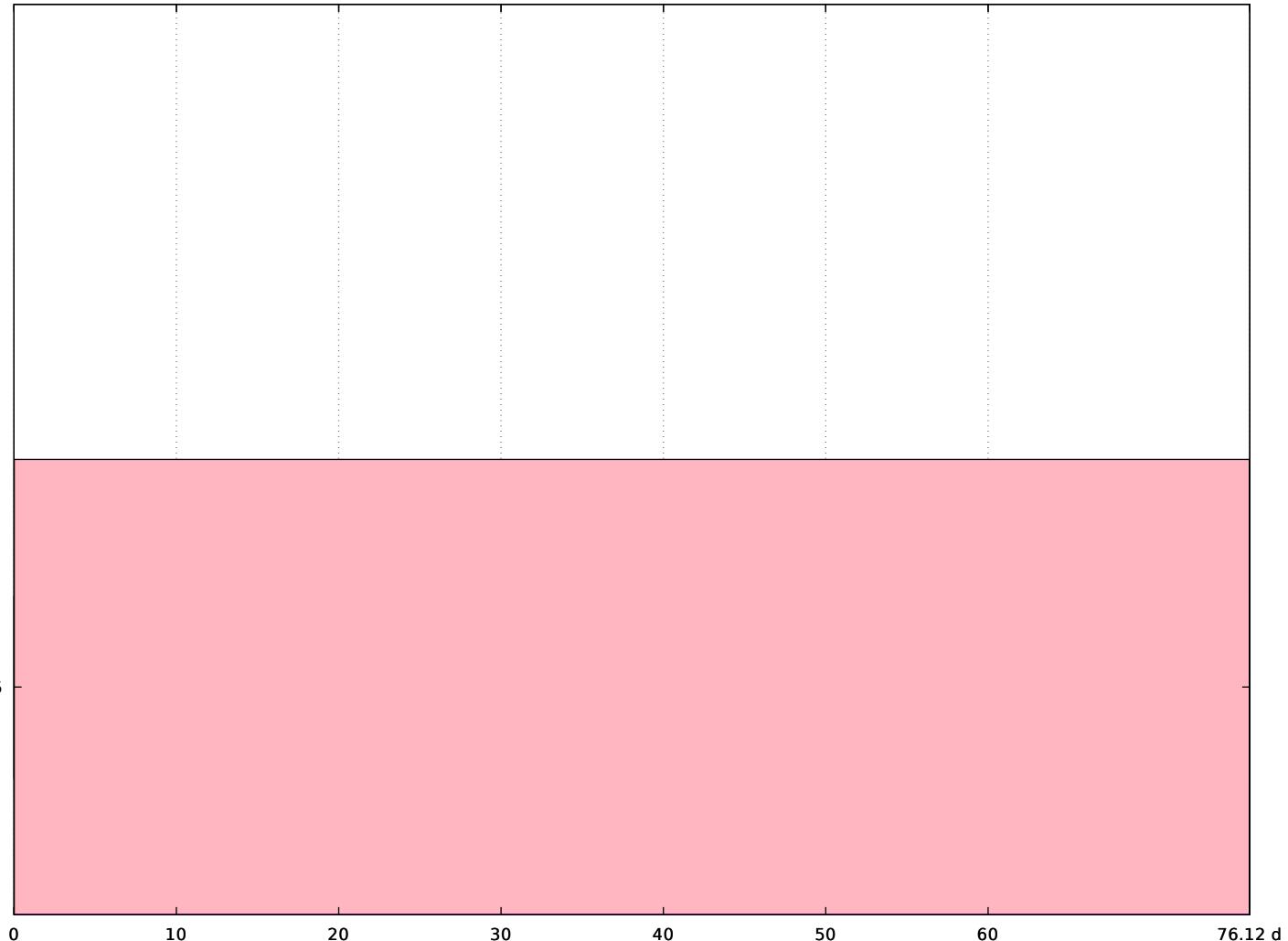
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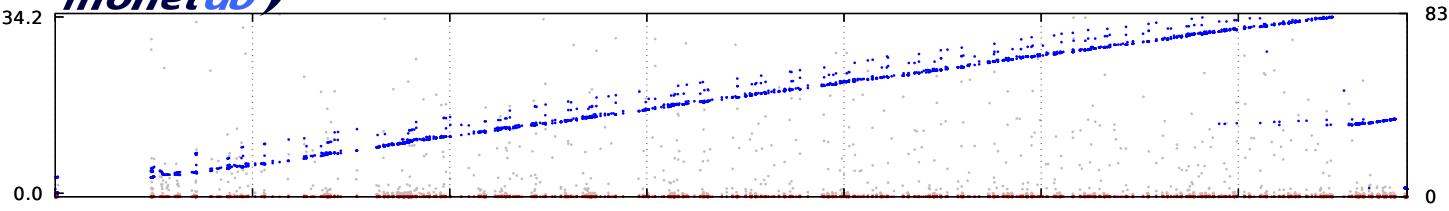
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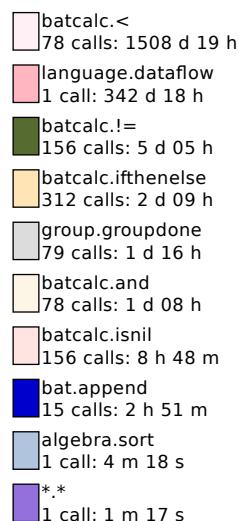
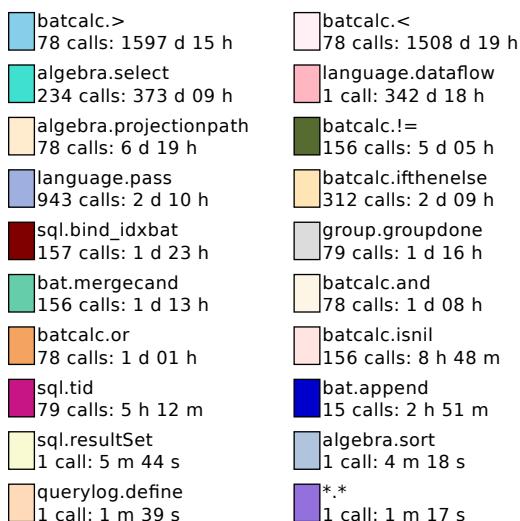
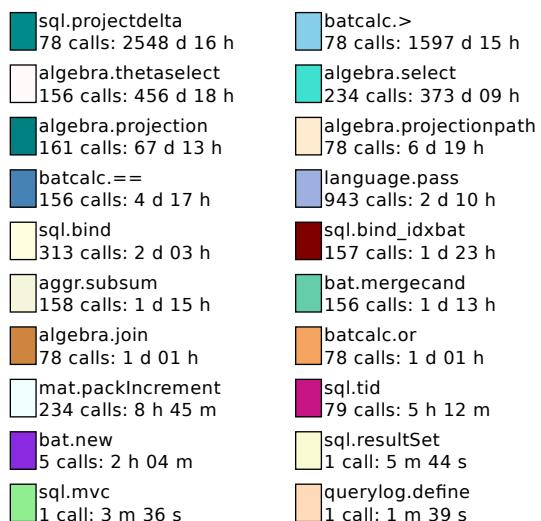
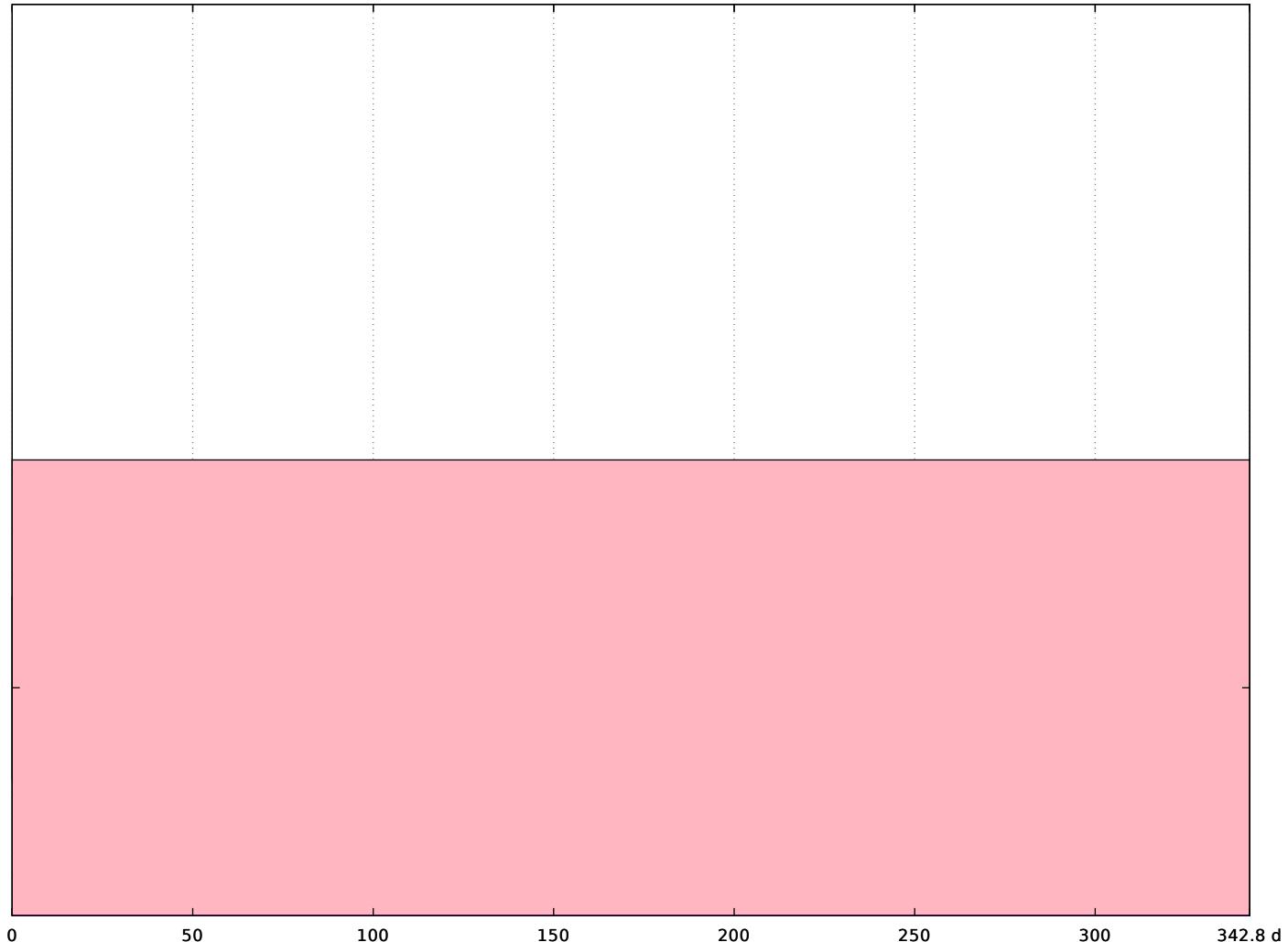
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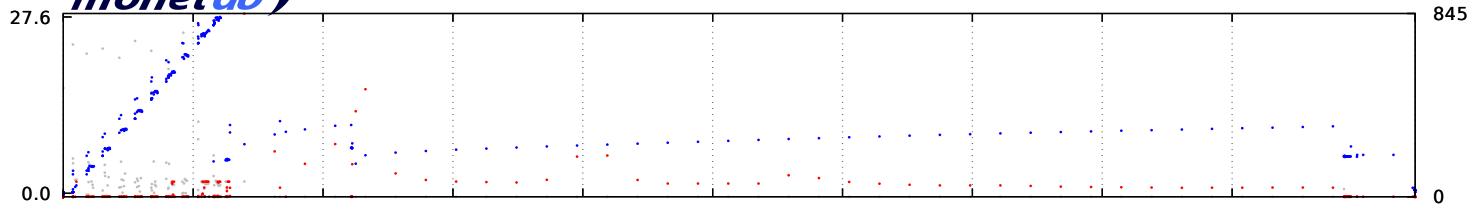
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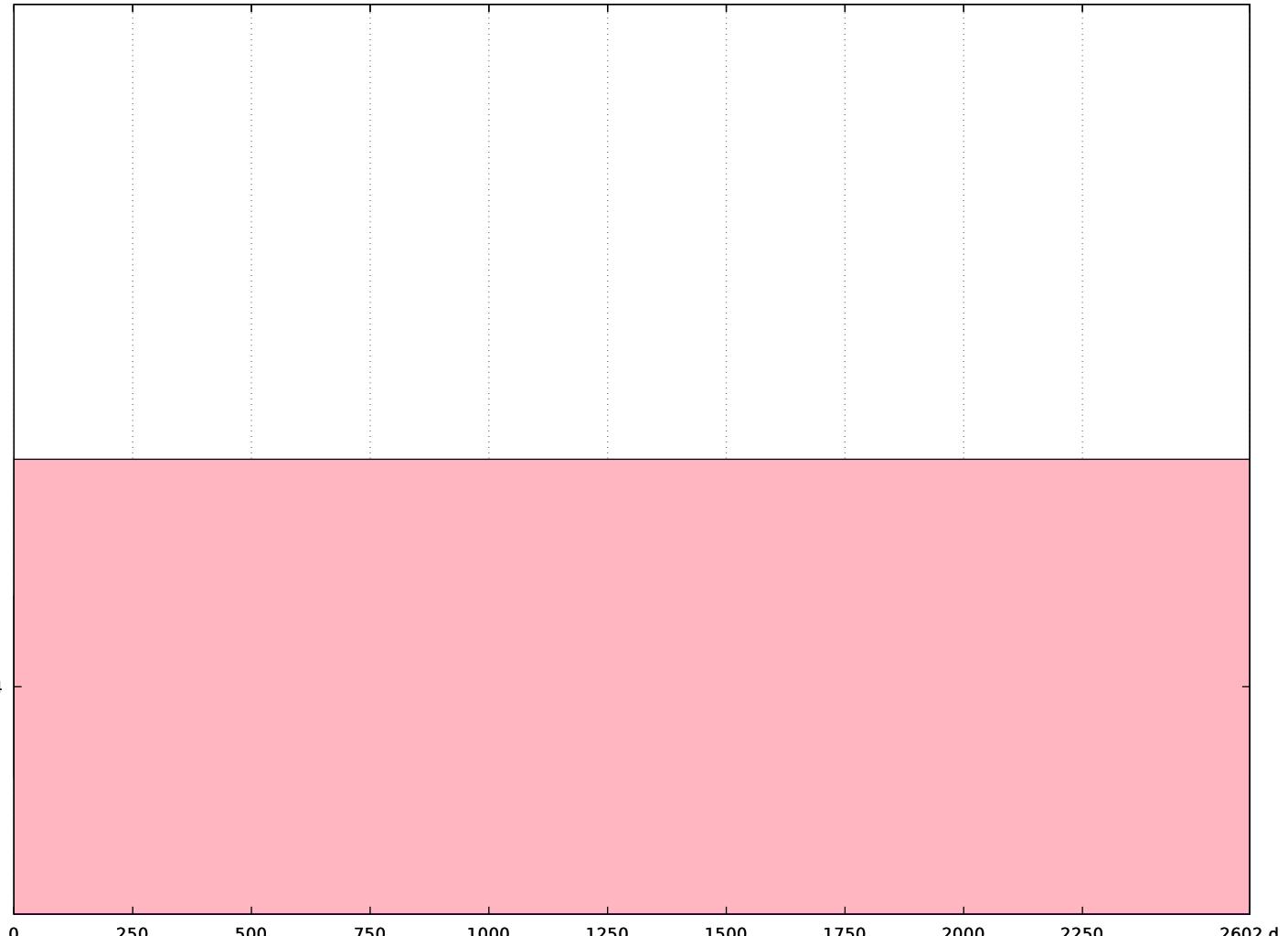
worker threads



memory in GB

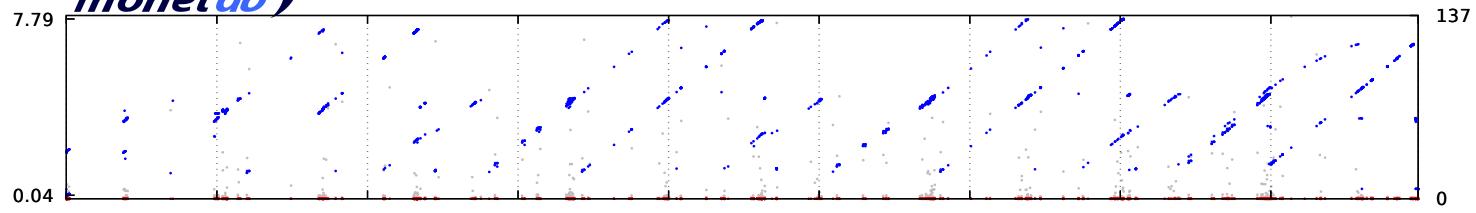


worker threads

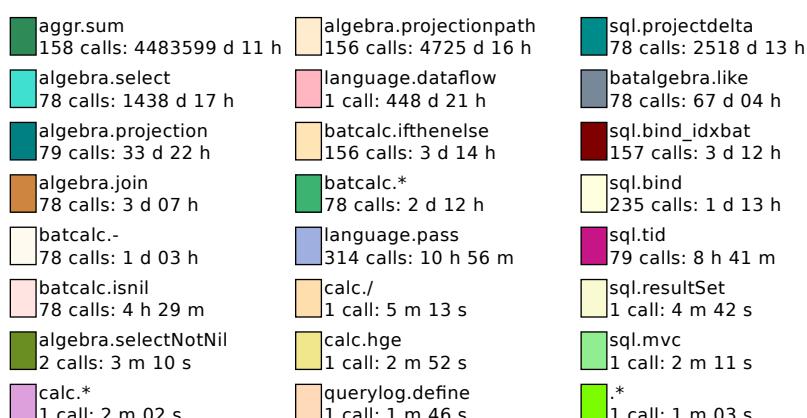
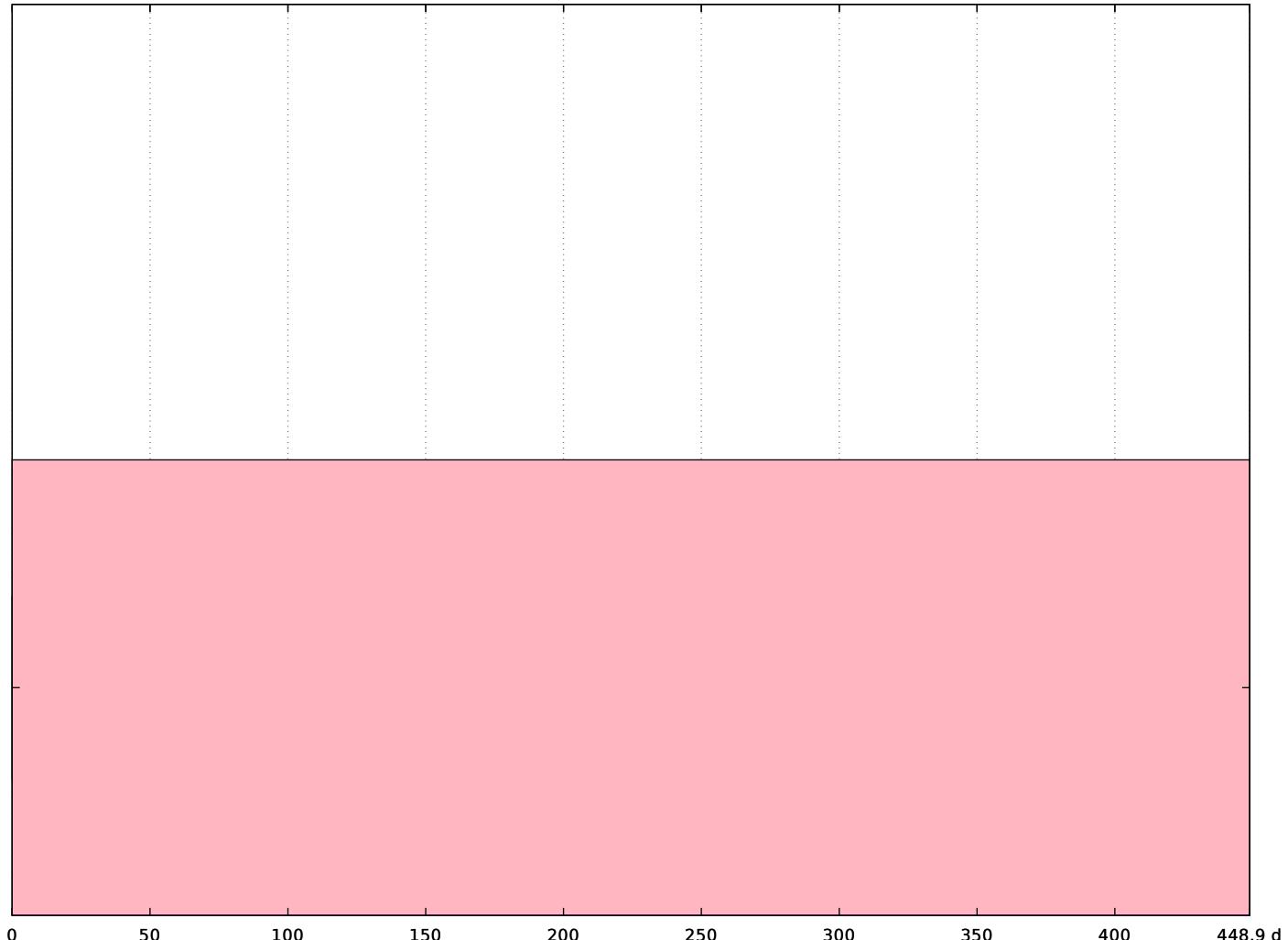


 language.dataflow 1 call: 2602 d 10 h	 group.groupdone 2 calls: 1912 d 13 h	 algebra.likeselect 20 calls: 584 d 11 h
 algebra.difference 1 call: 233 d 10 h	 algebra.projectionpath 40 calls: 148 d 02 h	 aggr.subcount 2 calls: 102 d 20 h
 algebra.projection 26 calls: 97 d 22 h	 mat.packIncrement 40 calls: 40 d 21 h	 algebra.join 20 calls: 37 d 12 h
 bat.append 14 calls: 22 d 19 h	 sql.bind_idxbat 41 calls: 1 d 12 h	 algebra.project 1 call: 1 d 04 h
 sql.bind 41 calls: 1 d 01 h	 sql.delta 20 calls: 5 h 56 m	 sql.tid 21 calls: 2 h 56 m
 language.pass 50 calls: 2 h 22 m	 sql.mvc 1 call: 44 m 33 s	 bat.new 7 calls: 41 m 13 s
 algebra.sort 2 calls: 6 m 50 s	 sql.resultSet 1 call: 4 m 35 s	 querylog.define 1 call: 2 m 06 s
 bat.mirror 1 call: 2 m 06 s	 * 1 call: 1 m 04 s	

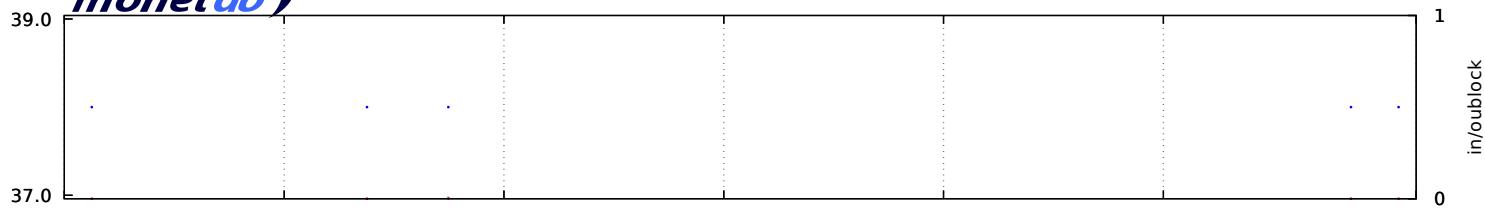
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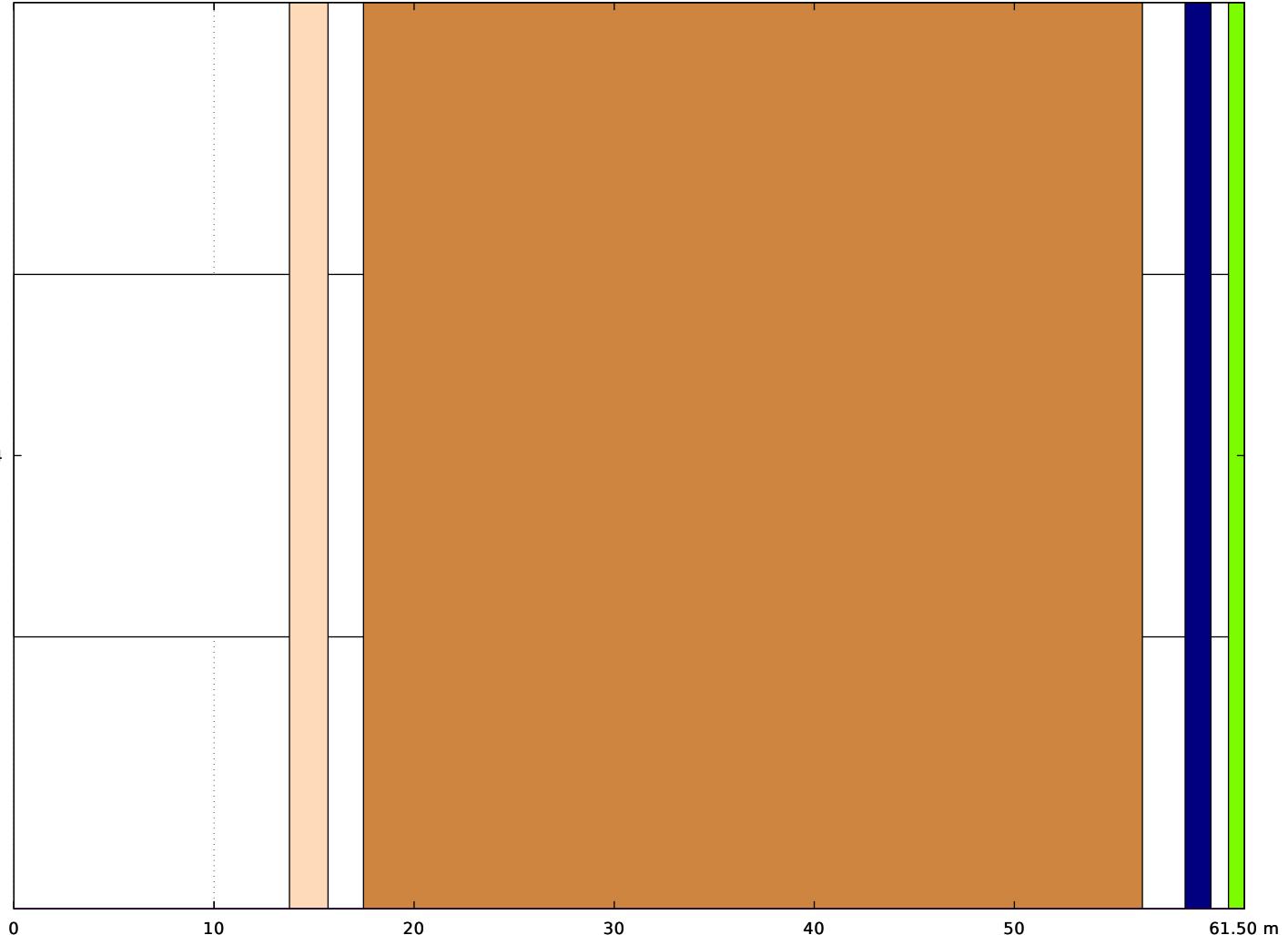
worker threads



memory in MB



worker threads



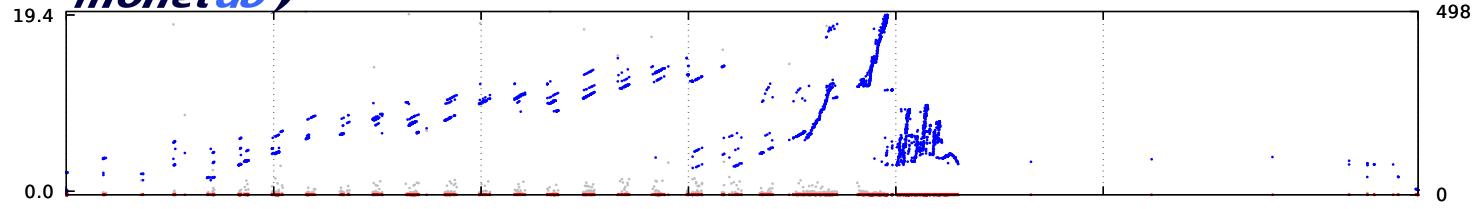
sqlcatalog.create_view
1 call: 38 m 56 s

querylog.define
1 call: 1 m 56 s

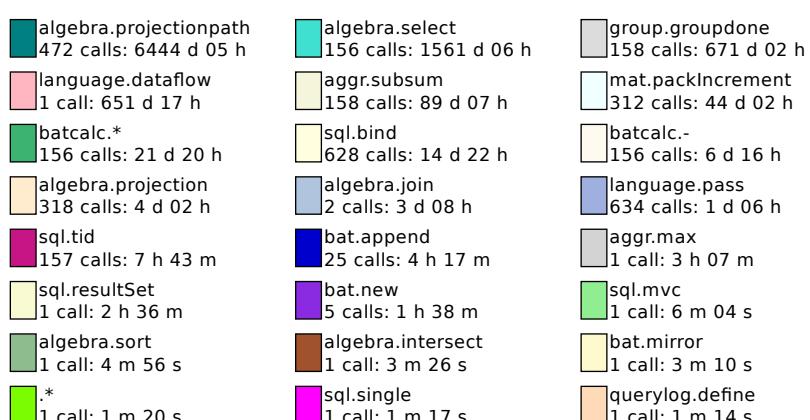
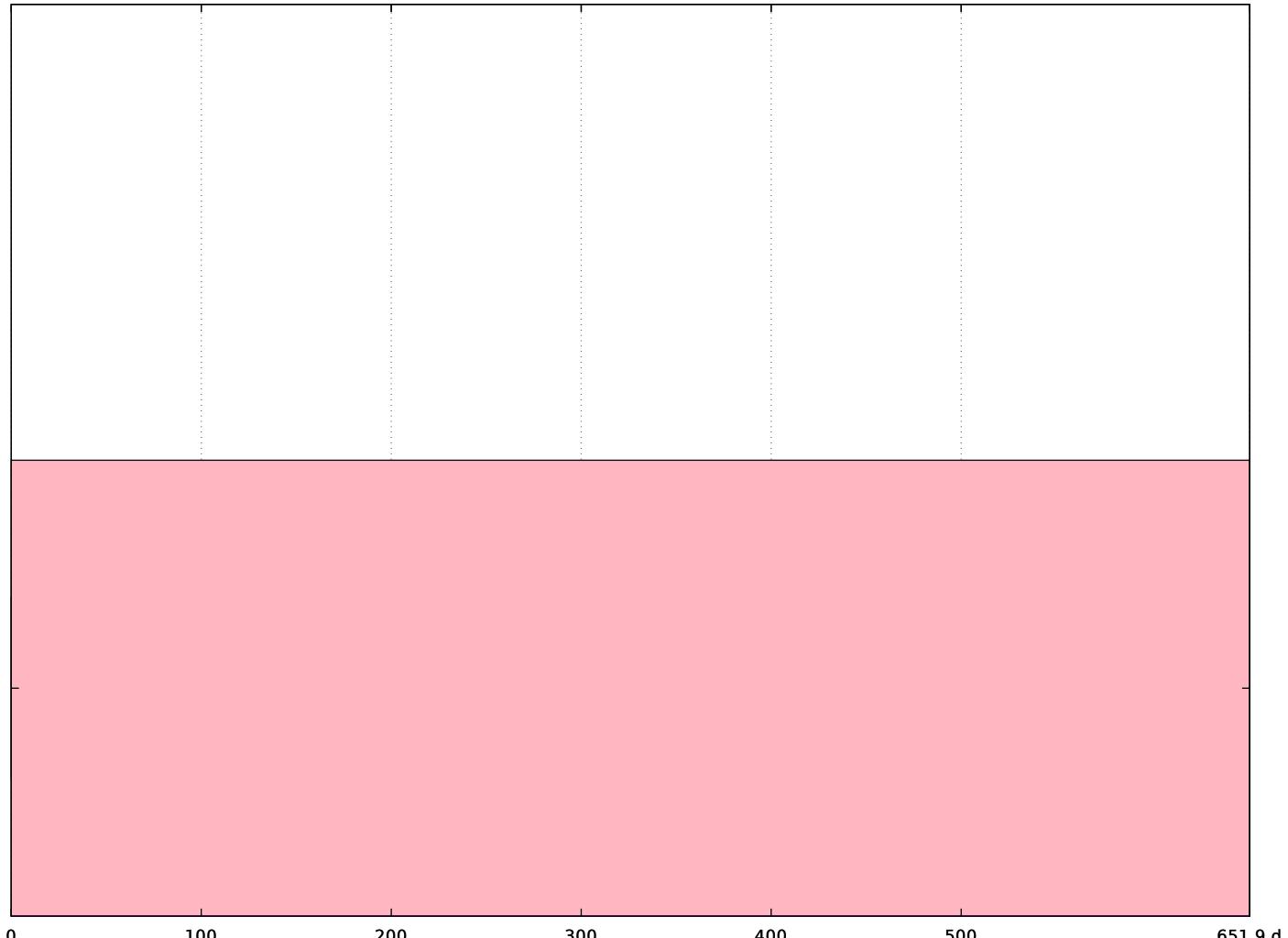
sql.exportOperation
1 call: 1 m 17 s

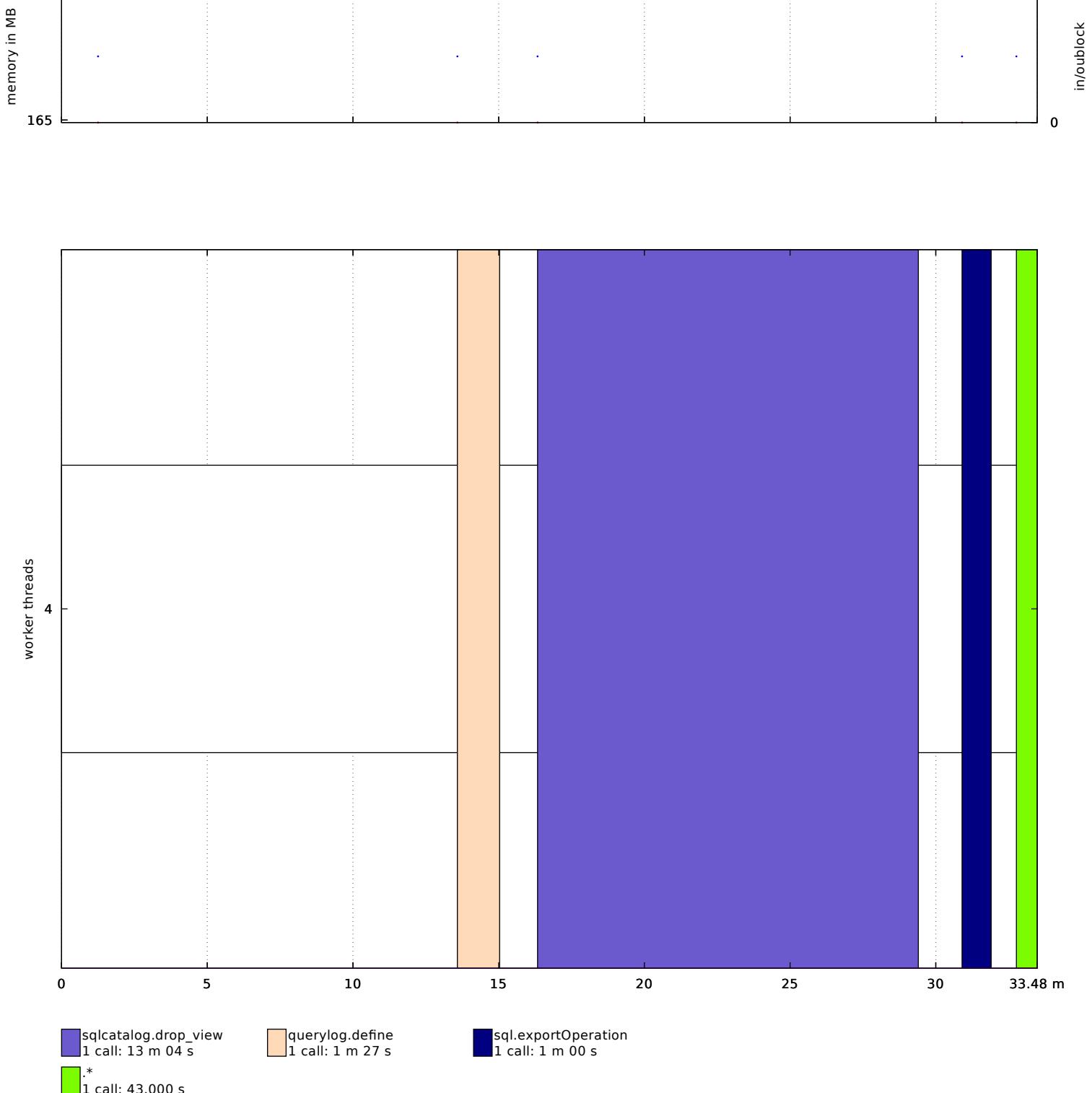
.*
1 call: 48.000 s

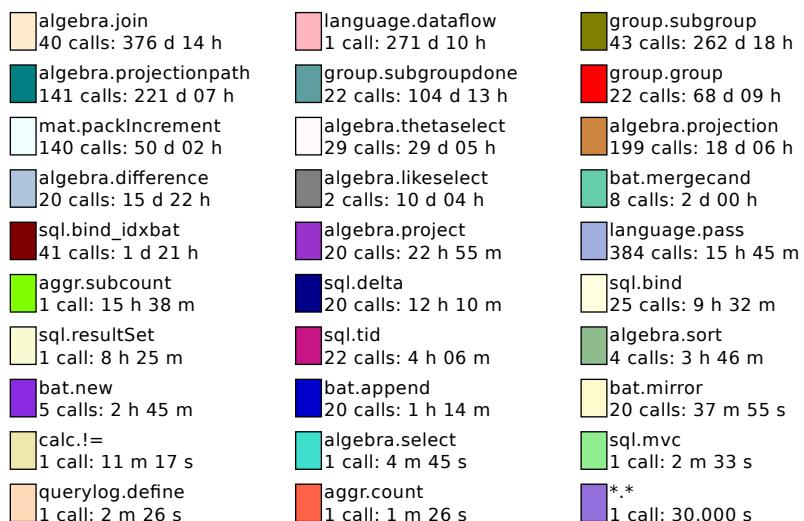
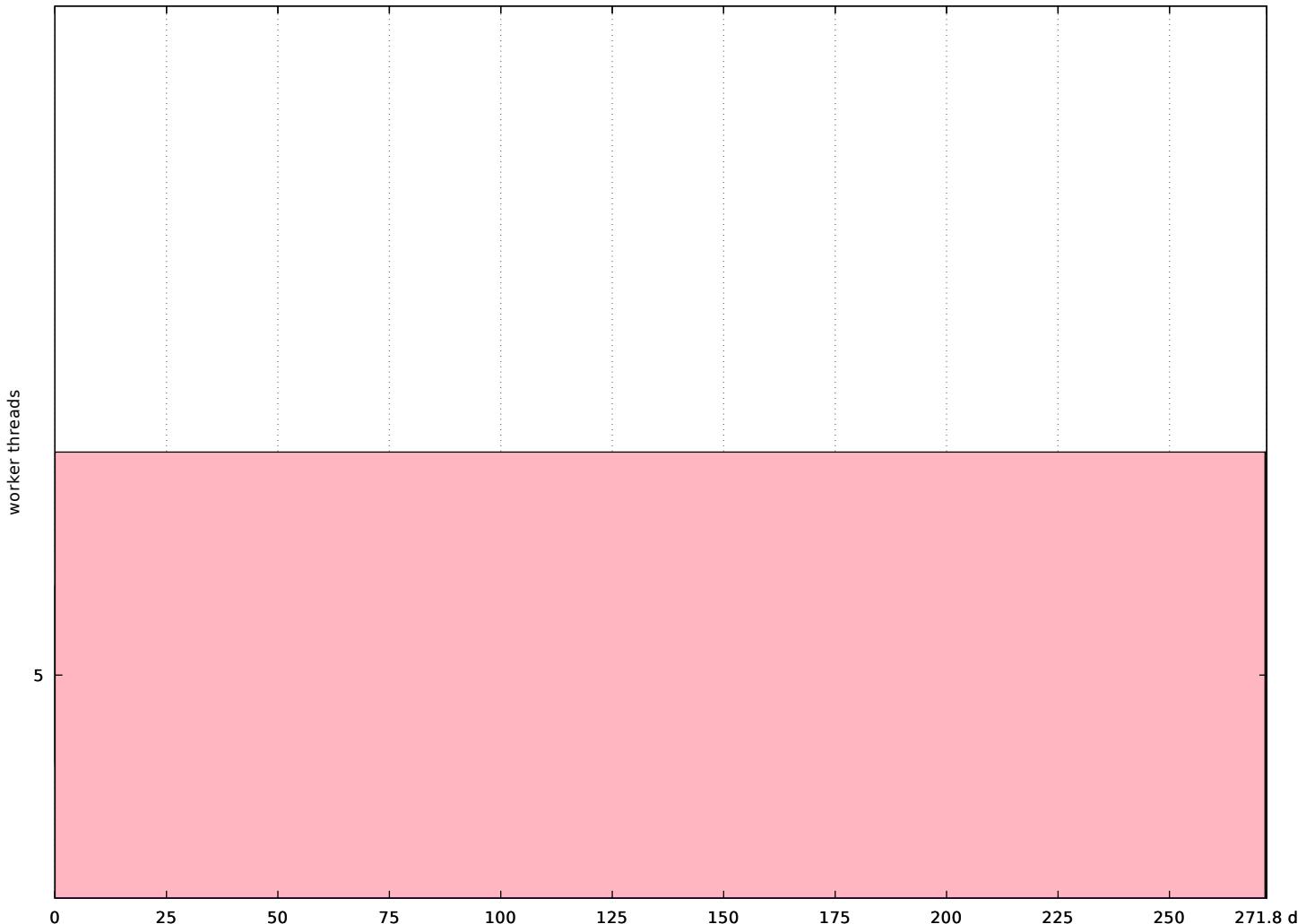
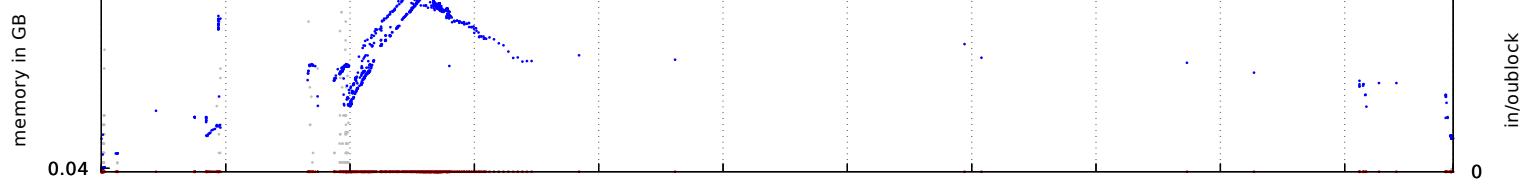
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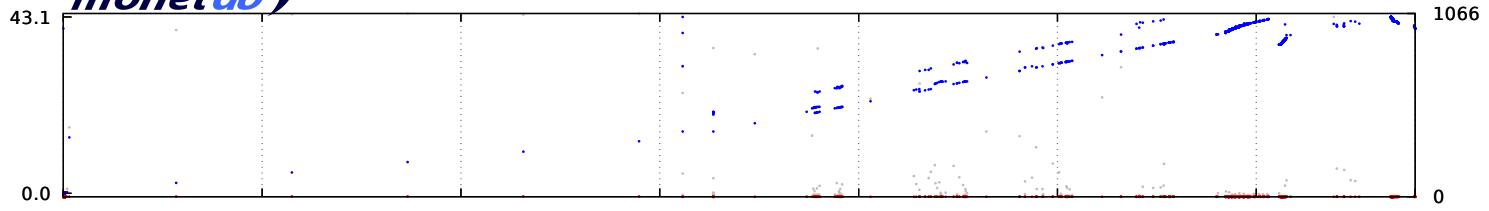
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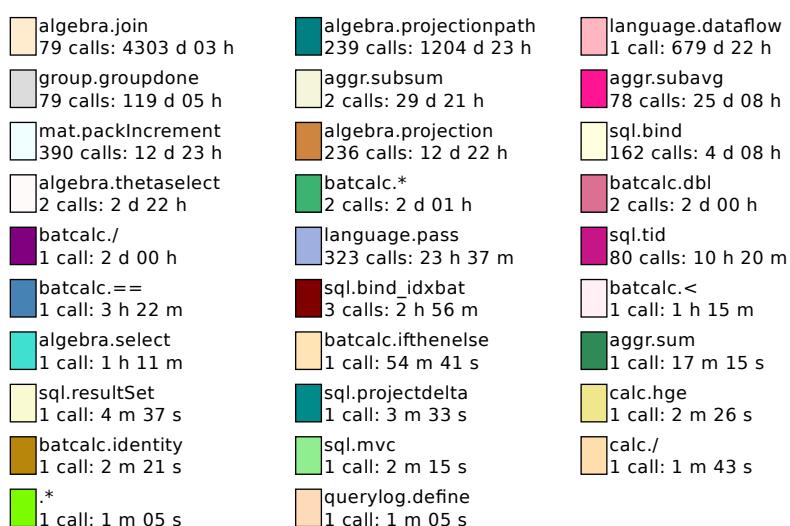
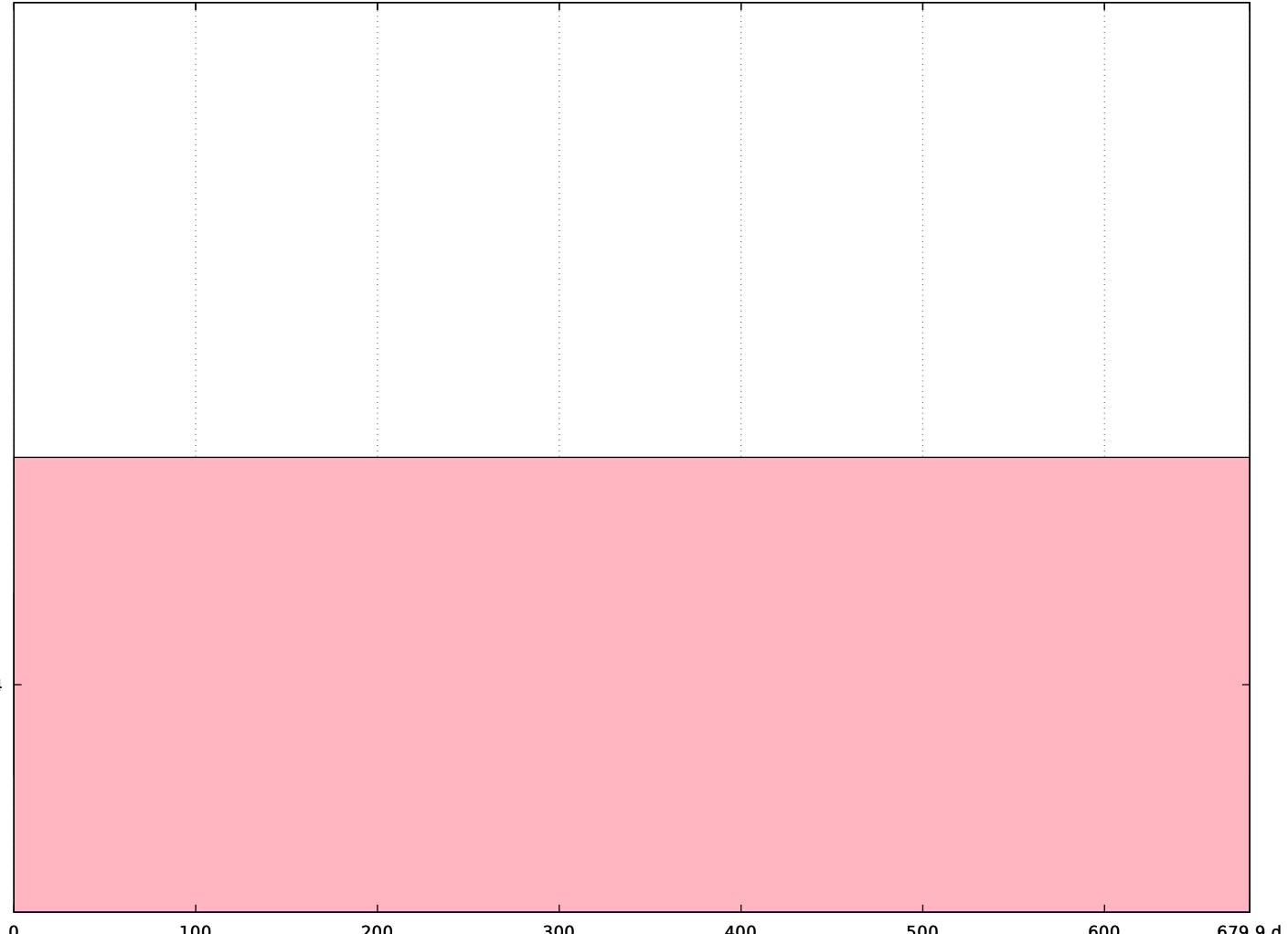




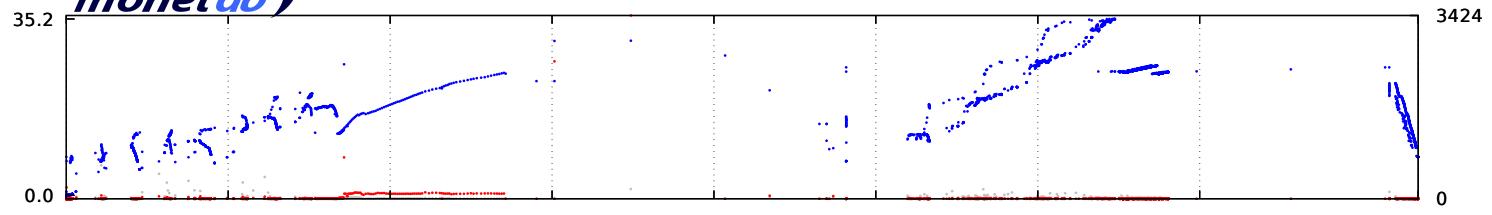
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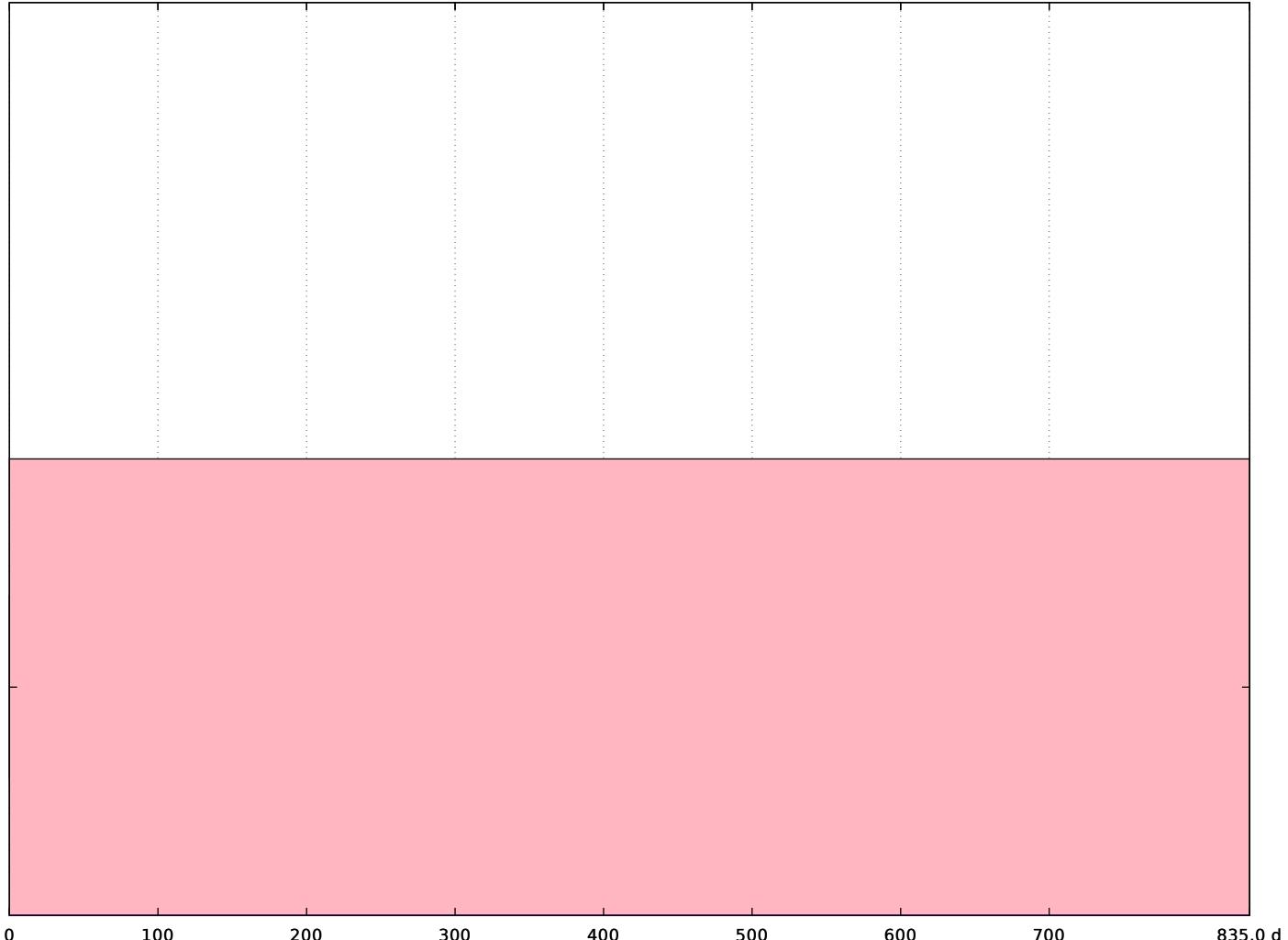
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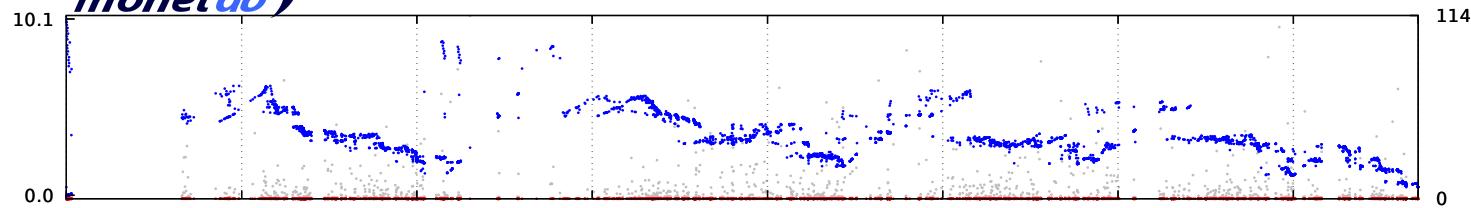


worker threads

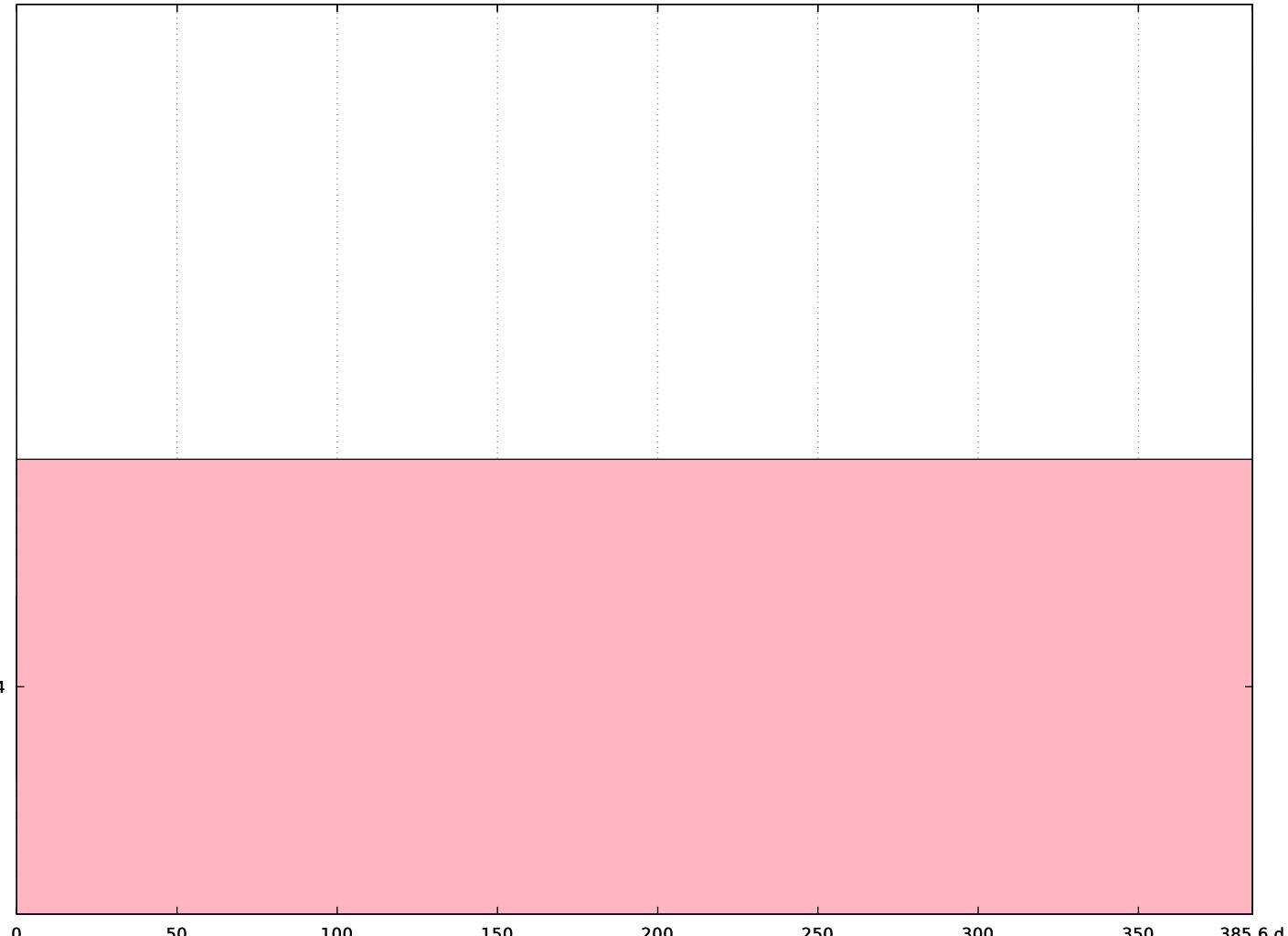


algebra.join 157 calls: 2746 d 18 h	group.groupdone 79 calls: 1695 d 11 h	aggr.subsum 158 calls: 1476 d 00 h
algebra.projectionpath 480 calls: 1271 d 16 h	language.dataflow 1 call: 834 d 22 h	algebra.projection 631 calls: 328 d 19 h
algebra.intersect 78 calls: 302 d 18 h	mat.packIncrement 702 calls: 119 d 12 h	algebra.thetaselect 1 call: 11 d 08 h
sql.bind_idxbat 160 calls: 10 d 09 h	language.pass 881 calls: 3 d 19 h	sql.delta 79 calls: 3 d 13 h
sql.bind 239 calls: 3 d 13 h	sql.tid 158 calls: 14 h 21 m	group.group 79 calls: 9 h 39 m
group.subgroupdone 79 calls: 9 h 09 m	bat.mirror 78 calls: 3 h 04 m	bat.append 30 calls: 2 h 22 m
bat.new 5 calls: 1 h 39 m	algebra.firstn 2 calls: 22 m 34 s	sql.resultSet 1 call: 9 m 46 s
algebra.sort 2 calls: 9 m 23 s	algebra.subslice 1 call: 3 m 03 s	sql.mvc 1 call: 2 m 32 s
.* 1 call: 1 m 25 s	querylog.define 1 call: 1 m 10 s	

memory in GB

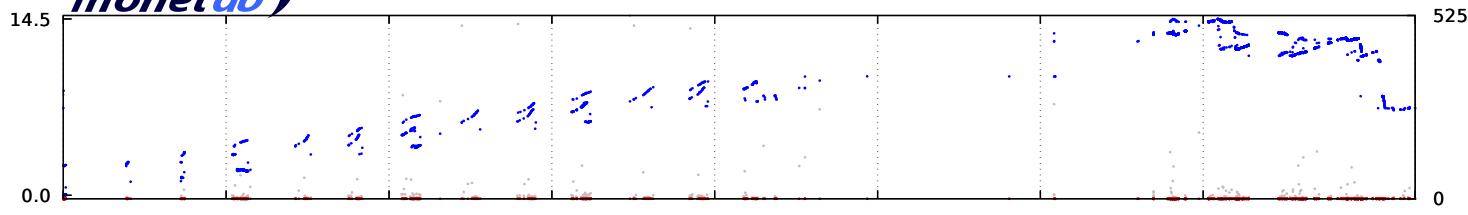


worker threads

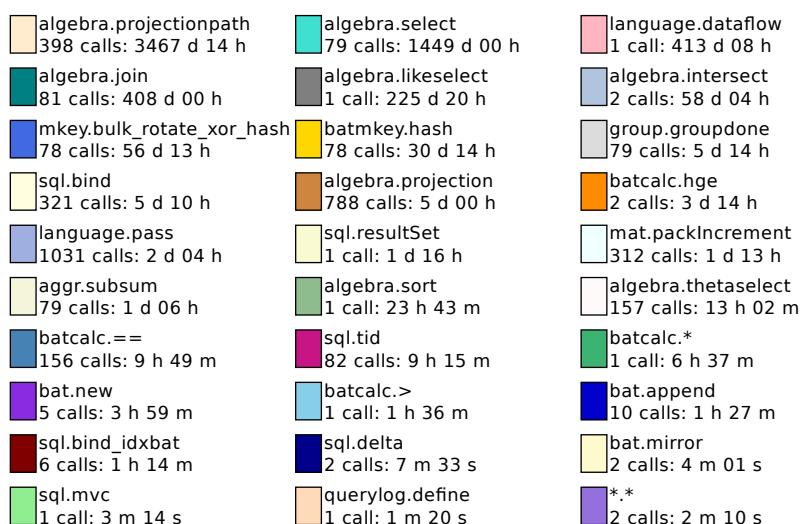
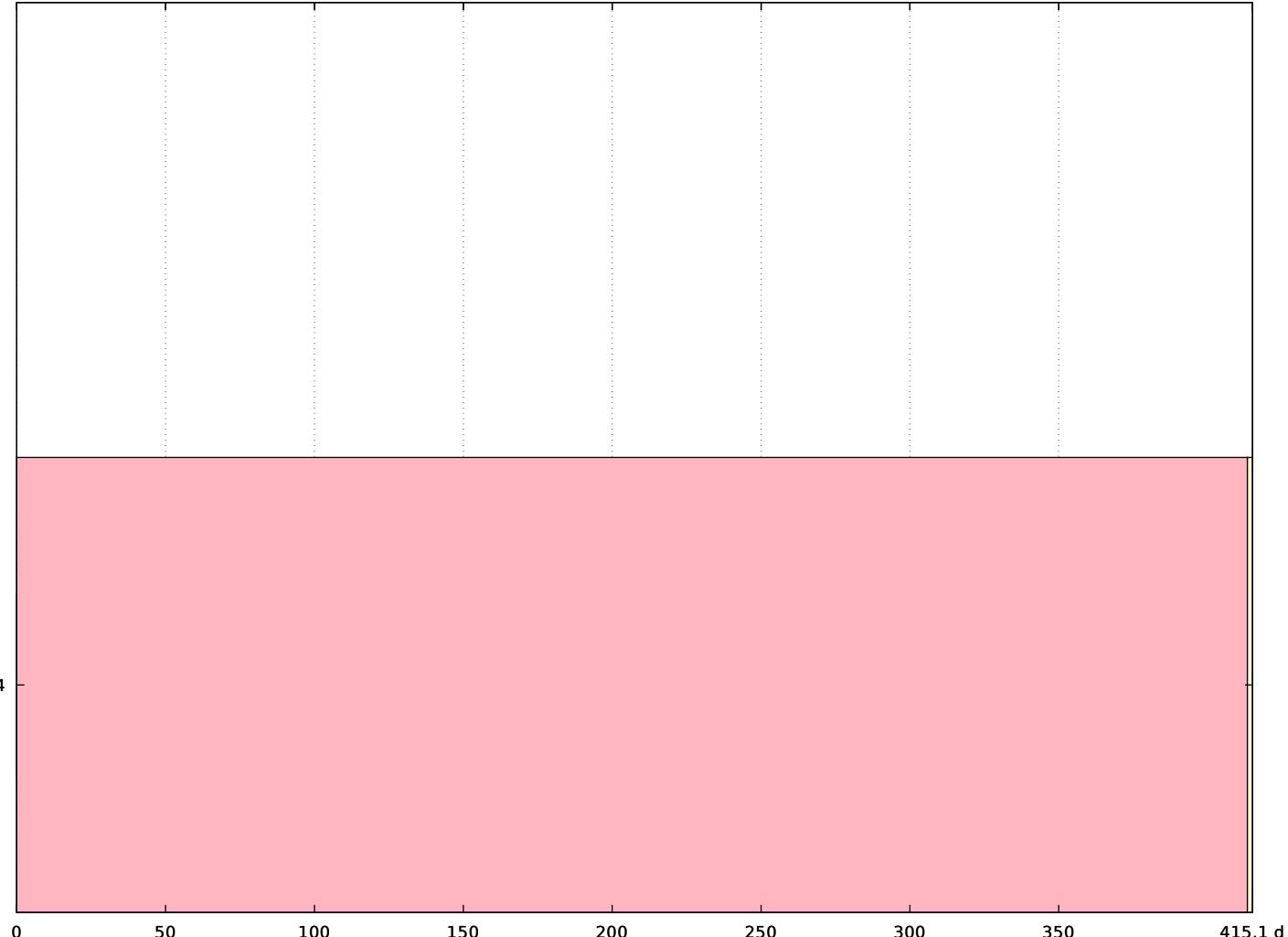


algebra.projection	algebra.join	algebra.select
315 calls: 2239 d 04 h	78 calls: 2027 d 15 h	468 calls: 1220 d 11 h
algebra.projectionpath	algebra.thetaselect	language.dataflow
390 calls: 1043 d 13 h	1872 calls: 867 d 17 h	1 call: 385 d 14 h
language.pass	sql.bind	bat.mergecand
1720 calls: 8 d 18 h	393 calls: 8 d 06 h	1560 calls: 5 d 15 h
sql.bind_idxbat	sql.tid	sql.delta
157 calls: 1 d 08 h	79 calls: 10 h 13 m	78 calls: 8 h 15 m
batcalc.-	batcalc.*	aggr.sum
78 calls: 6 h 56 m	78 calls: 5 h 12 m	79 calls: 5 h 10 m
mat.pack	sql.resultSet	sql.mvc
1 call: 35 m 30 s	1 call: 8 m 41 s	1 call: 2 m 17 s
algebra.selectNotNil	querylog.define	.*
1 call: 1 m 57 s	1 call: 1 m 29 s	1 call: 1 m 26 s

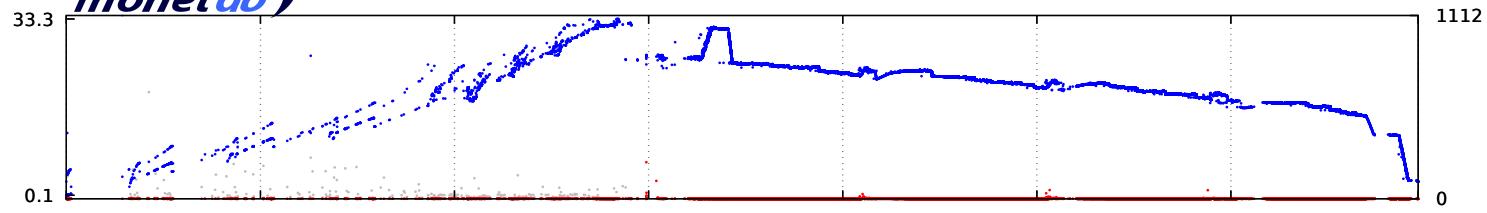
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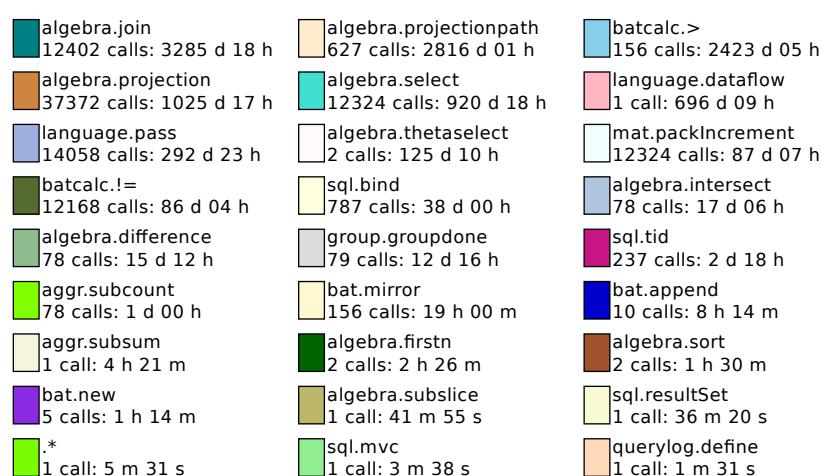
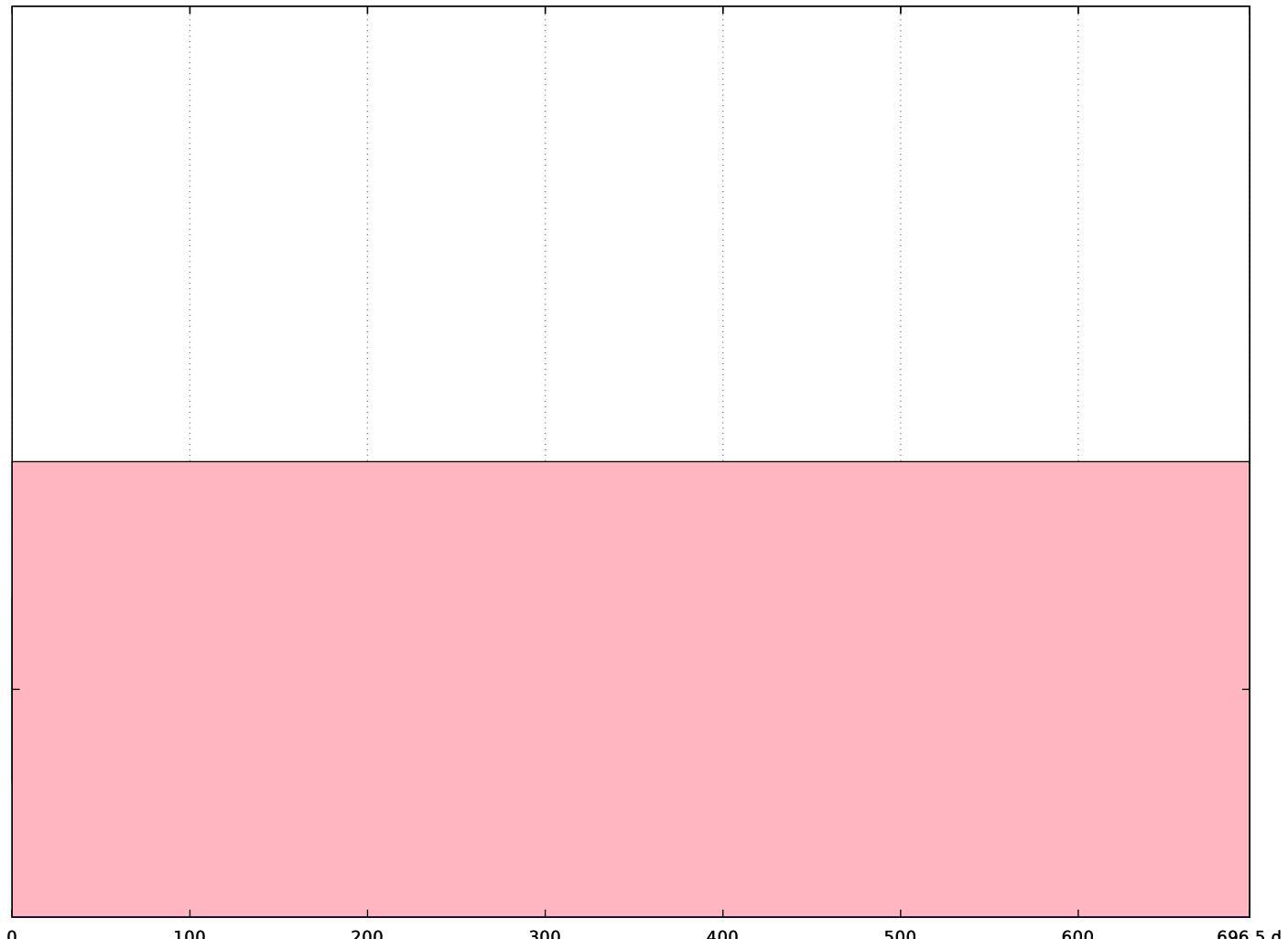
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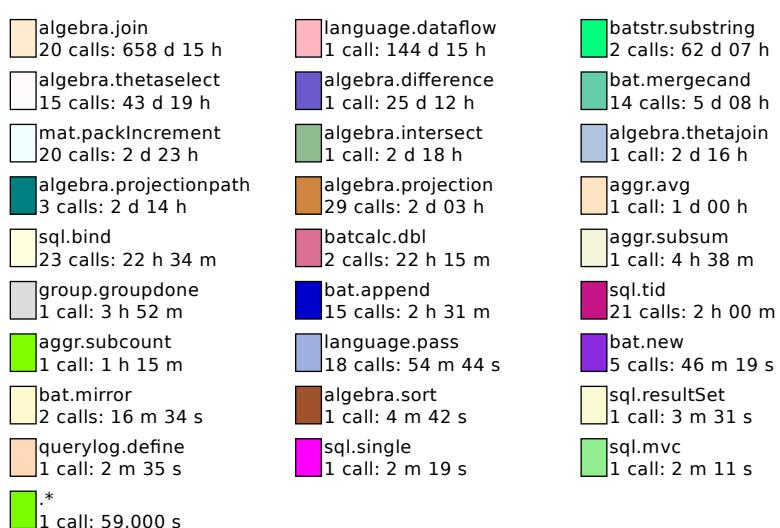
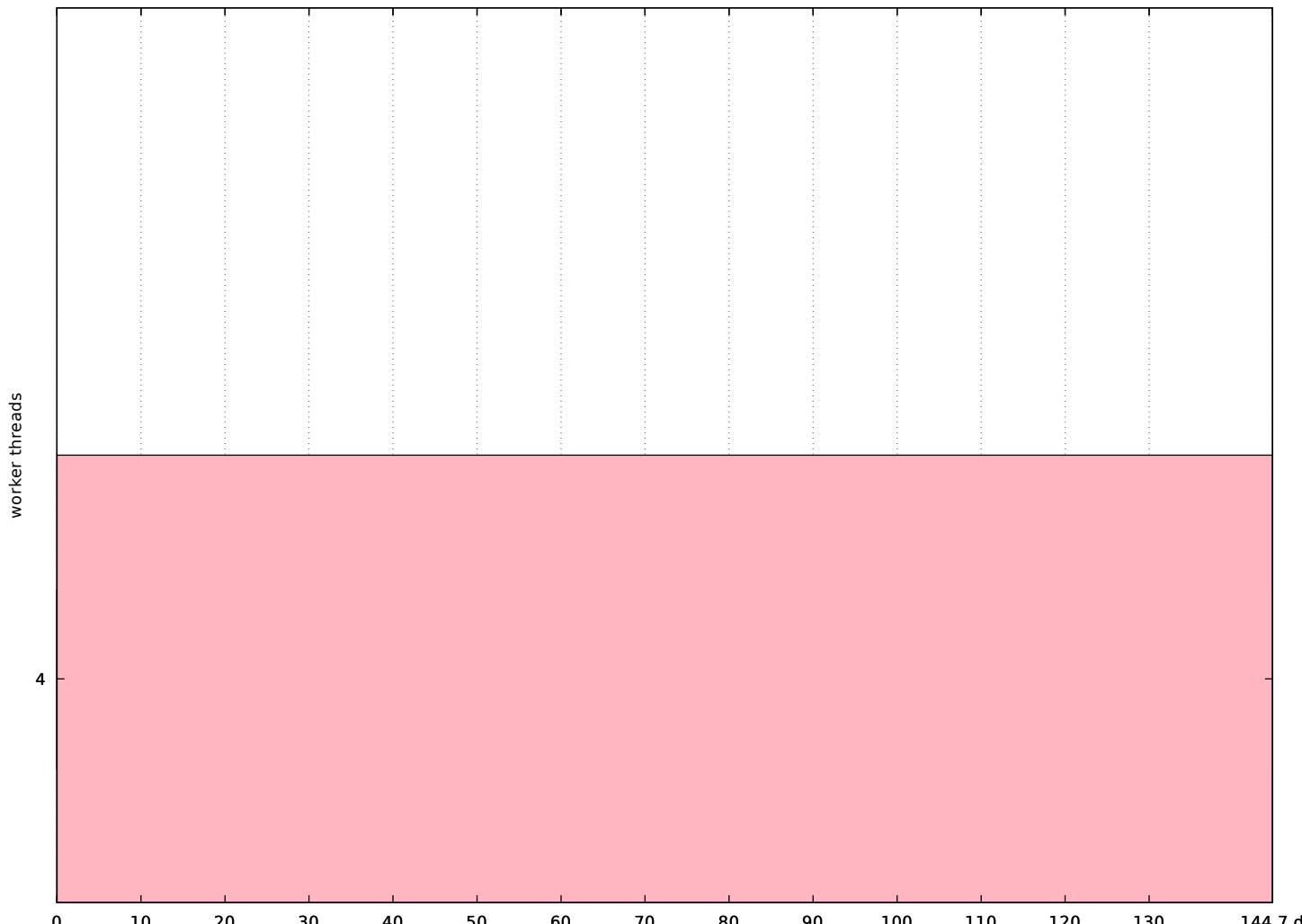
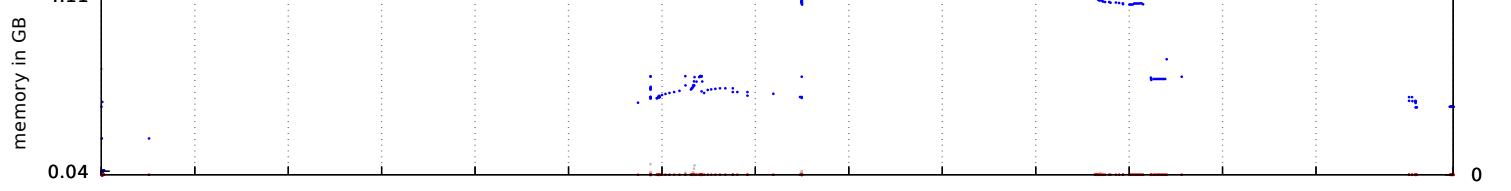


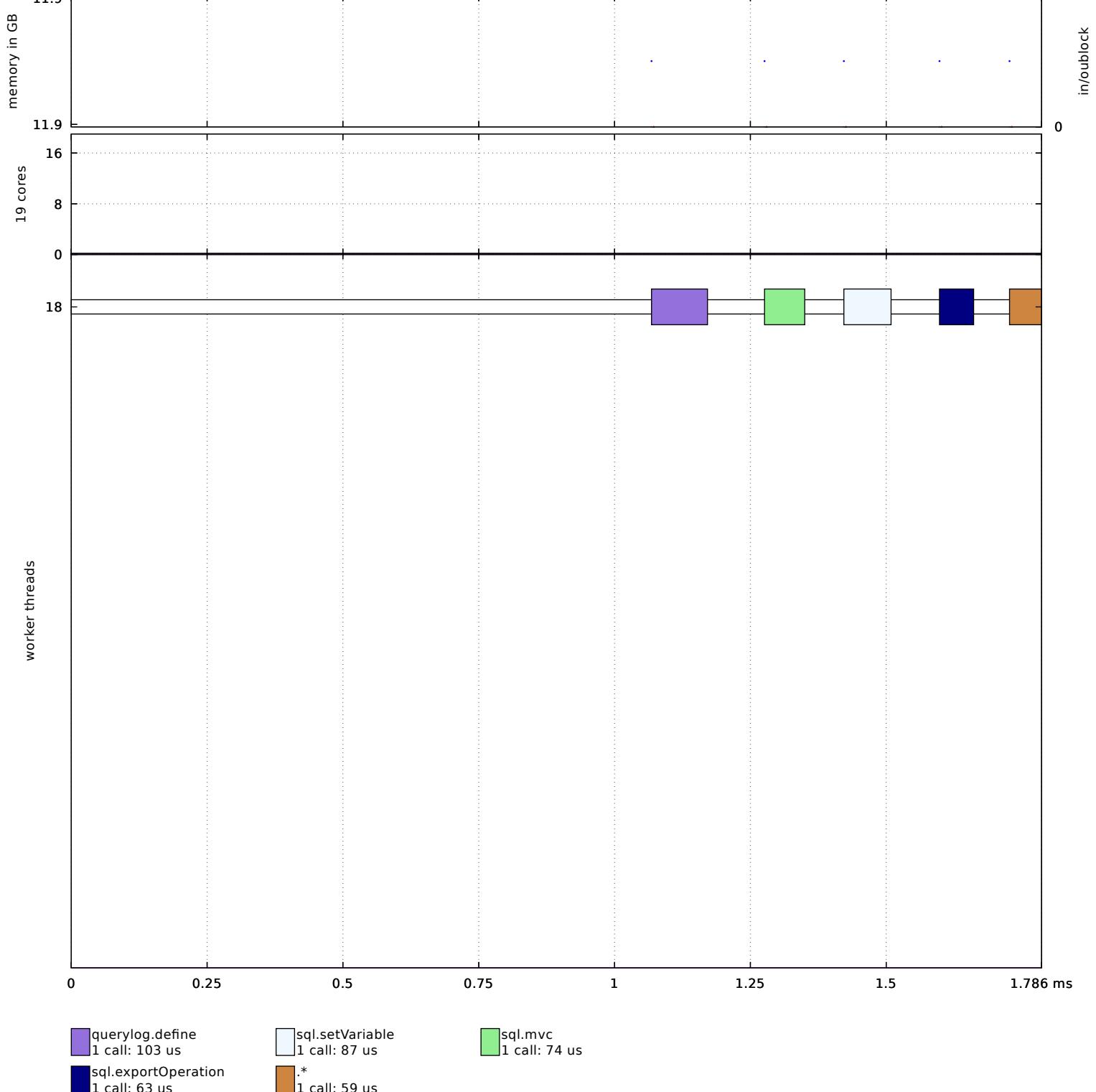
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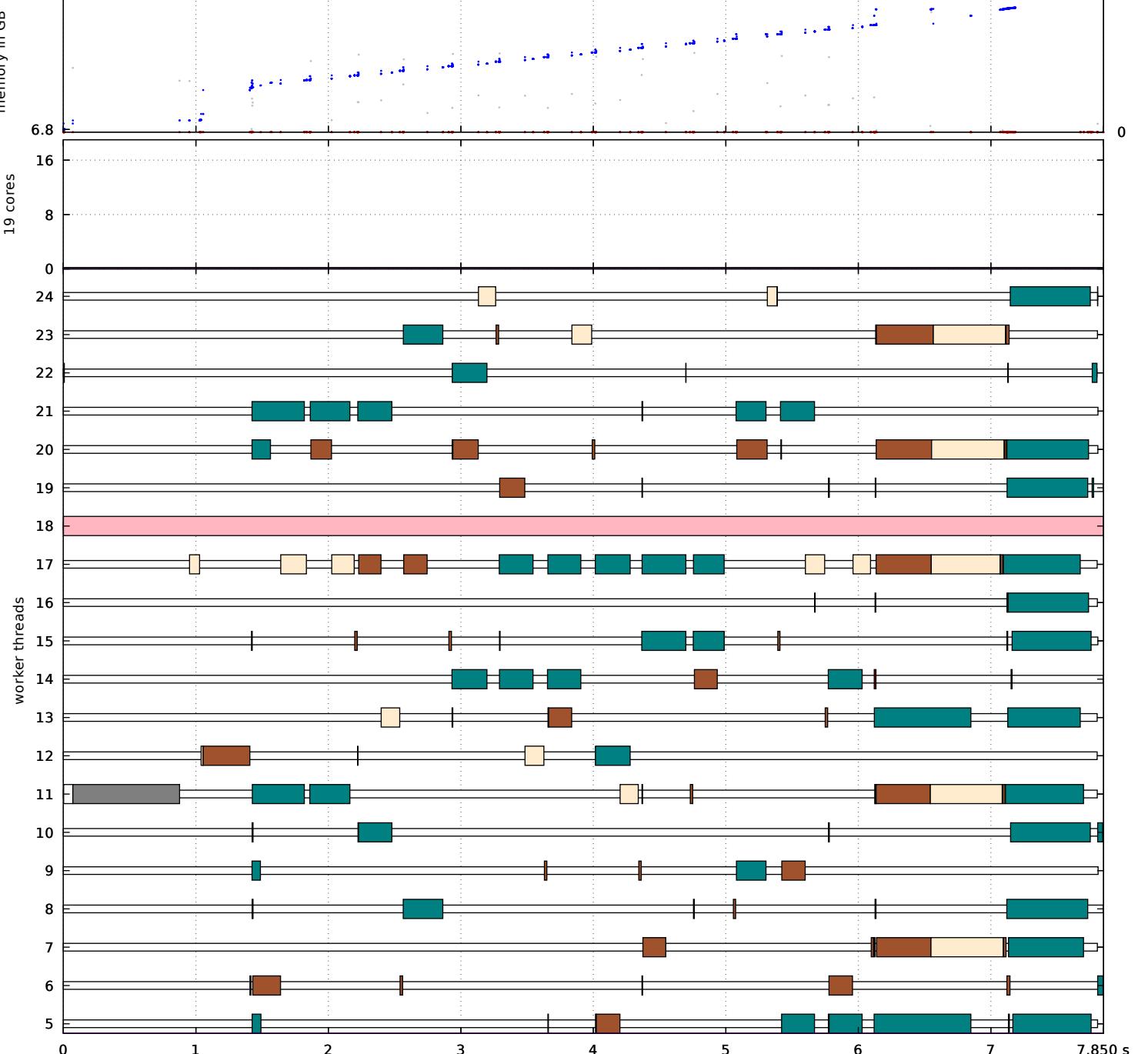


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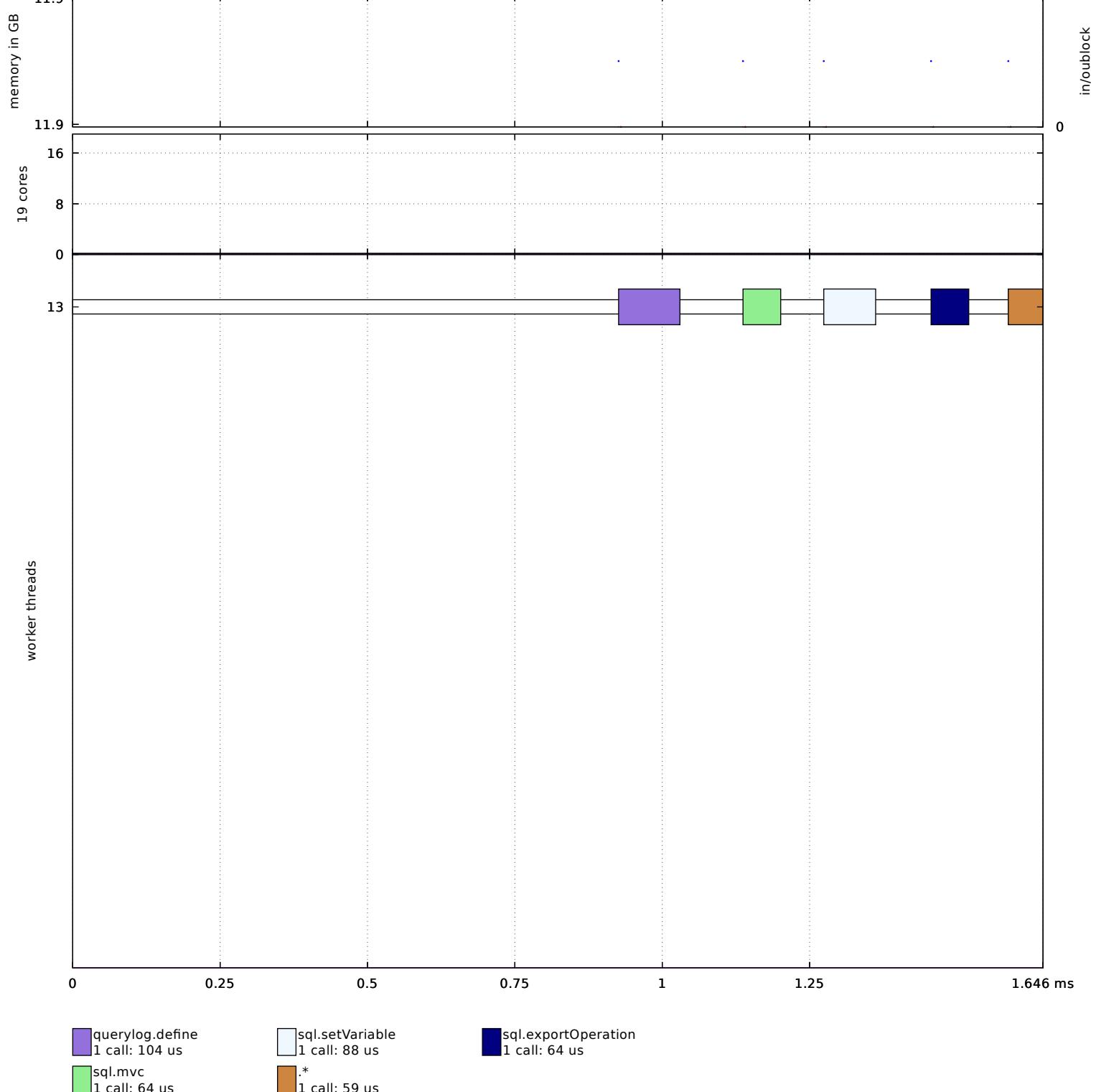


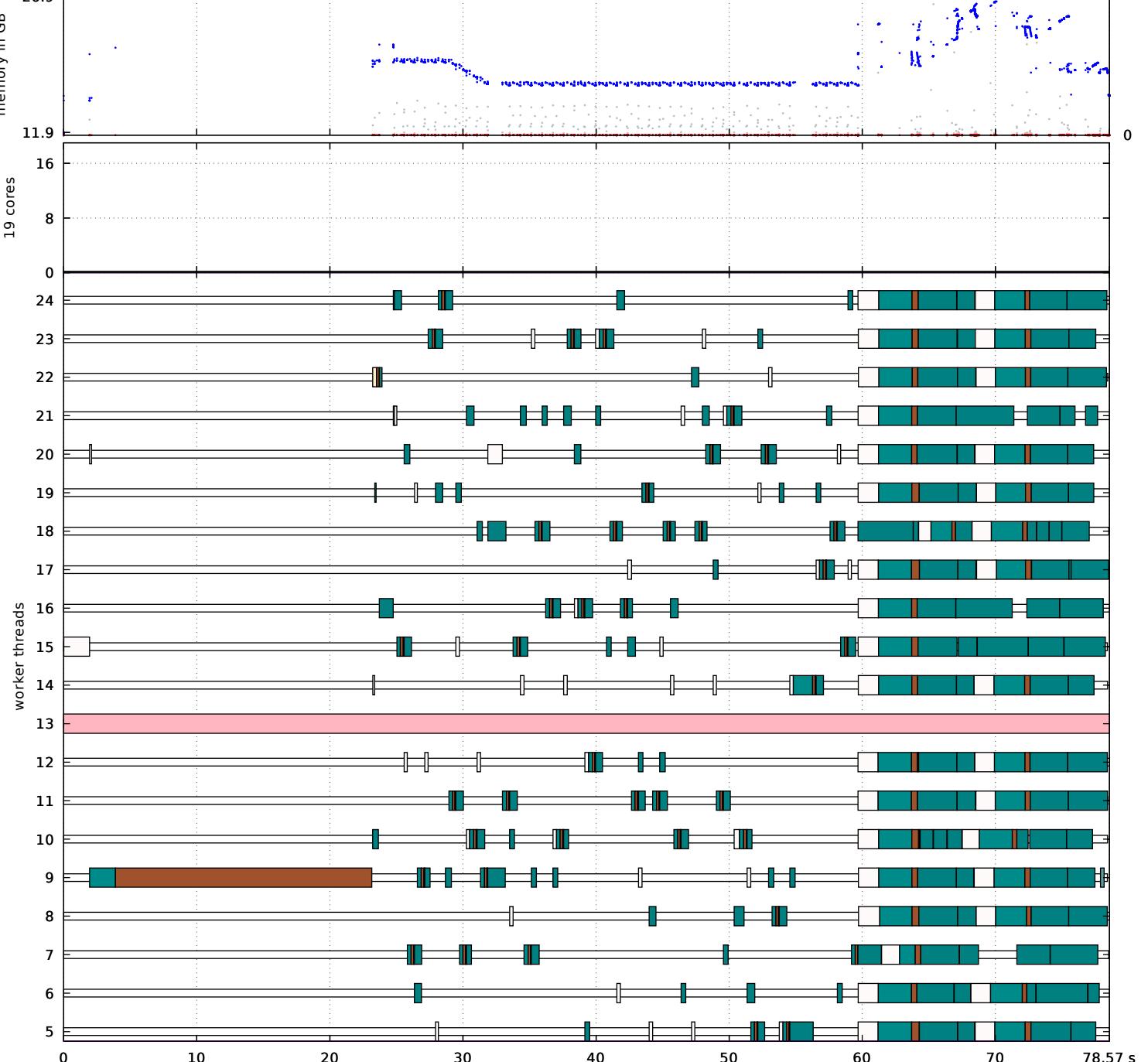




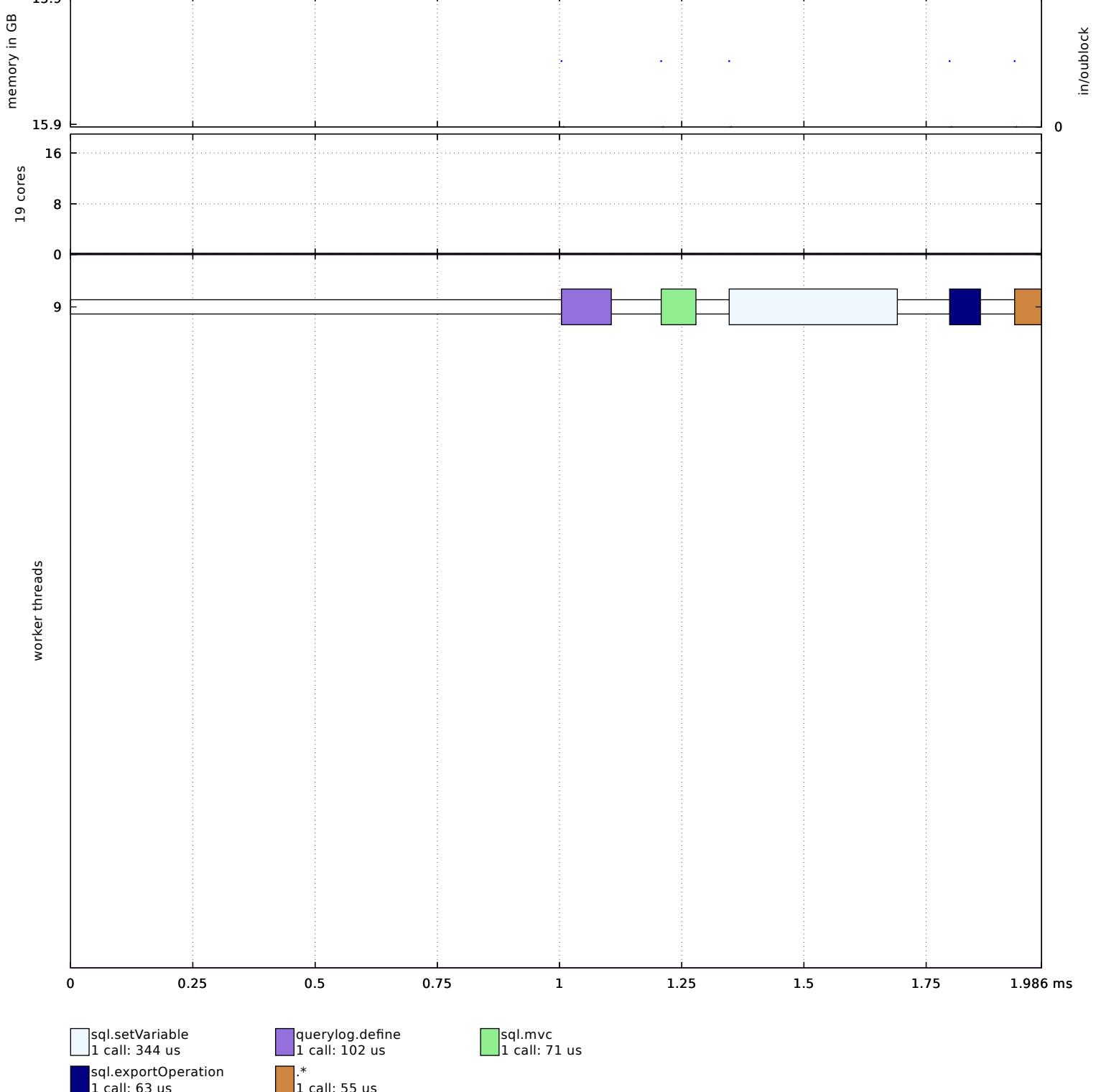


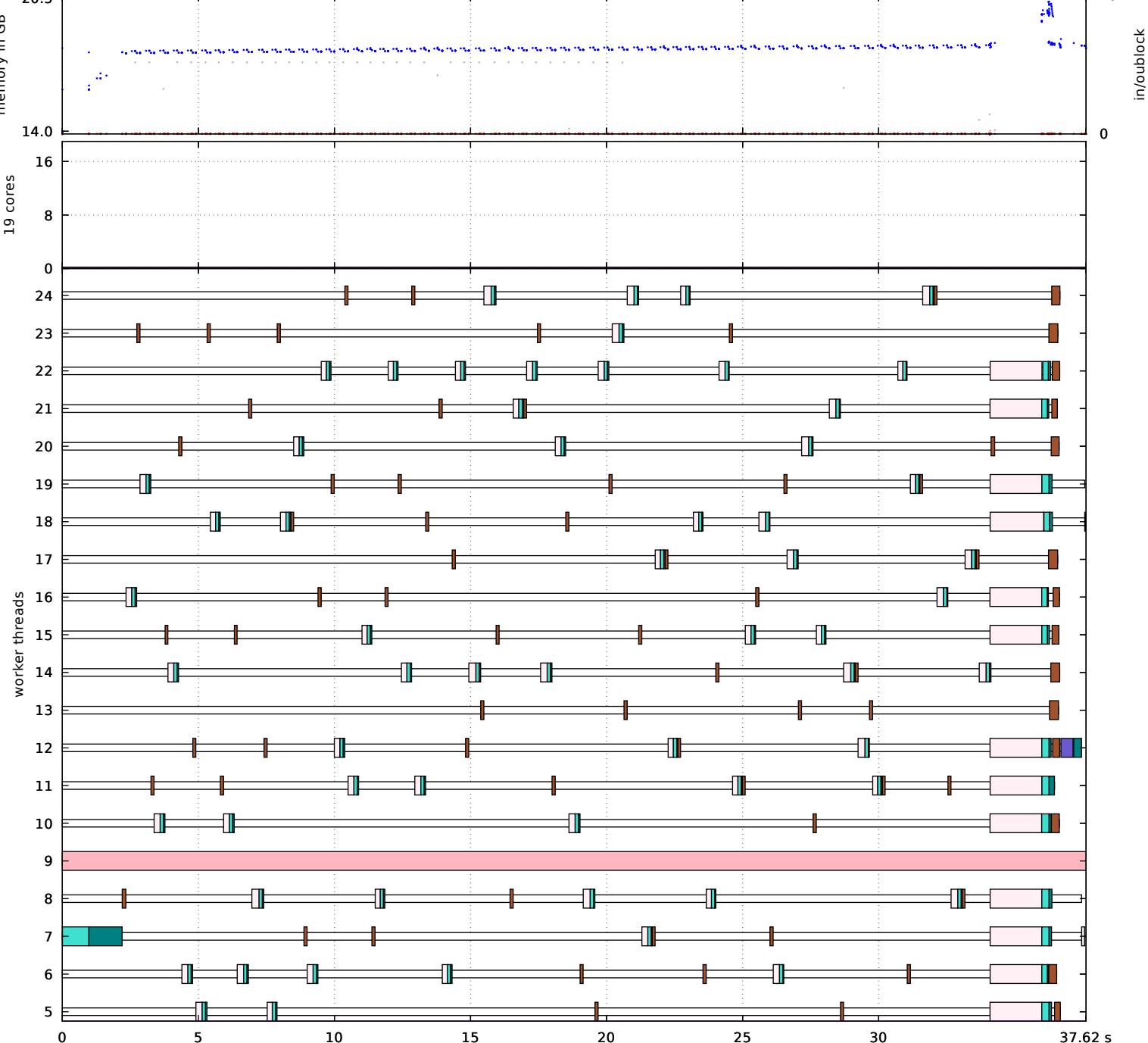
algebra.projectionpath 251 calls: 16.440 s	language.dataflow 1 call: 7.847 s	algebra.join 160 calls: 5.710 s
algebra.projection 157 calls: 5.460 s	algebra.likeselect 1 call: 805.697 ms	language.pass 353 calls: 182.487 ms
mat.packIncrement 220 calls: 129.934 ms	sql.bind_idxbat 90 calls: 100.934 ms	algebra.thetaselect 2 calls: 69.298 ms
sql.projectdelta 43 calls: 33.655 ms	sql.bind 33 calls: 31.533 ms	aggr.submin 21 calls: 22.004 ms
sql.tid 25 calls: 21.421 ms	language.block 128 calls: 13.305 ms	group.groupdone 21 calls: 9.309 ms
bat.append 40 calls: 8.466 ms	batcalc.identity 20 calls: 4.994 ms	bat.new 5 calls: 3.852 ms
algebra.firstn 4 calls: 2.967 ms	batcalc.== 1 call: 1.603 ms	sql.resultSet 1 call: 857 us
algebra.sort 4 calls: 842 us	algebra.select 1 call: 807 us	algebra.subslice 1 call: 220 us
sql.mvc 1 call: 162 us	querylog.define 1 call: 81 us	.* 1 call: 78 us

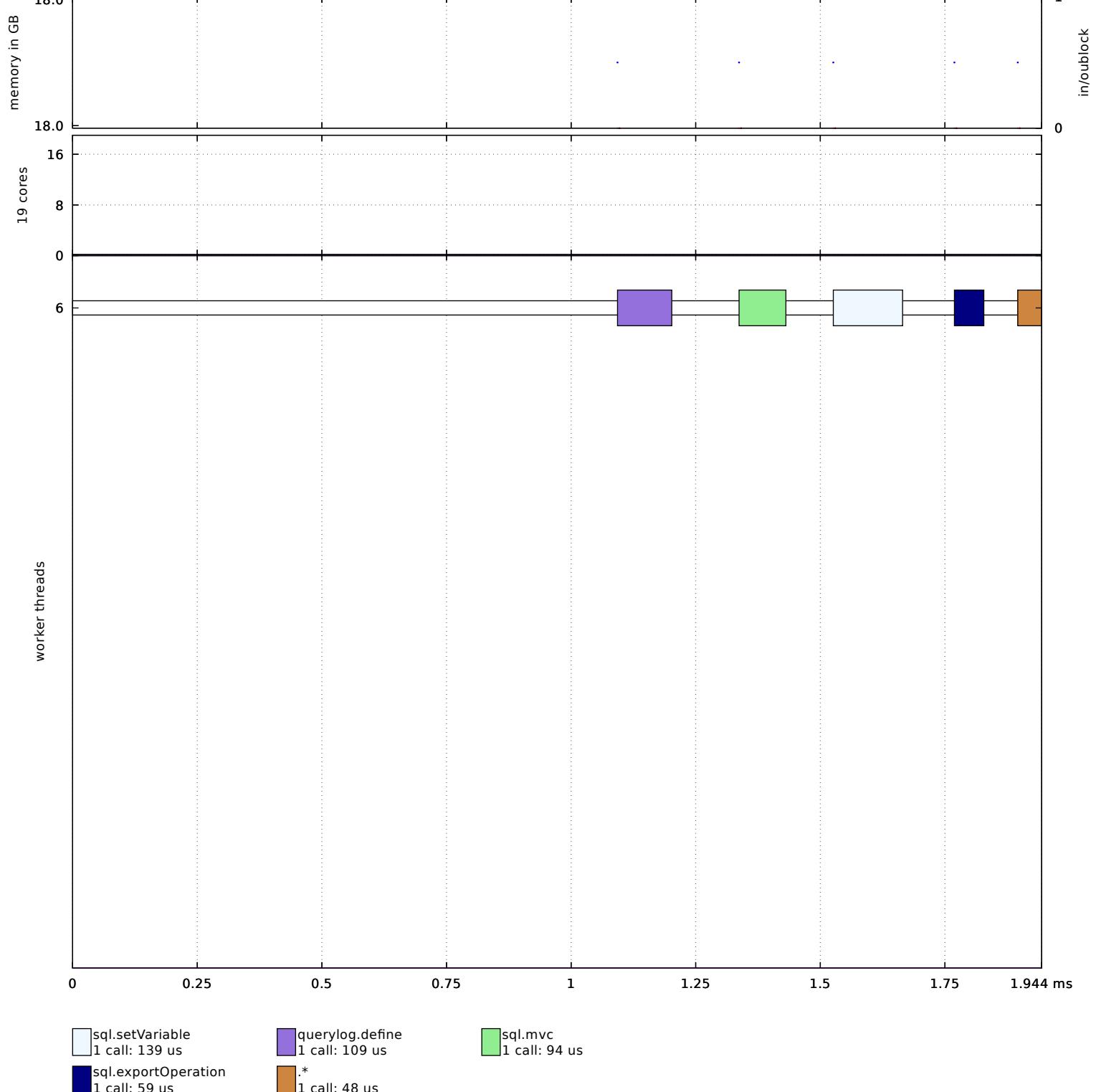


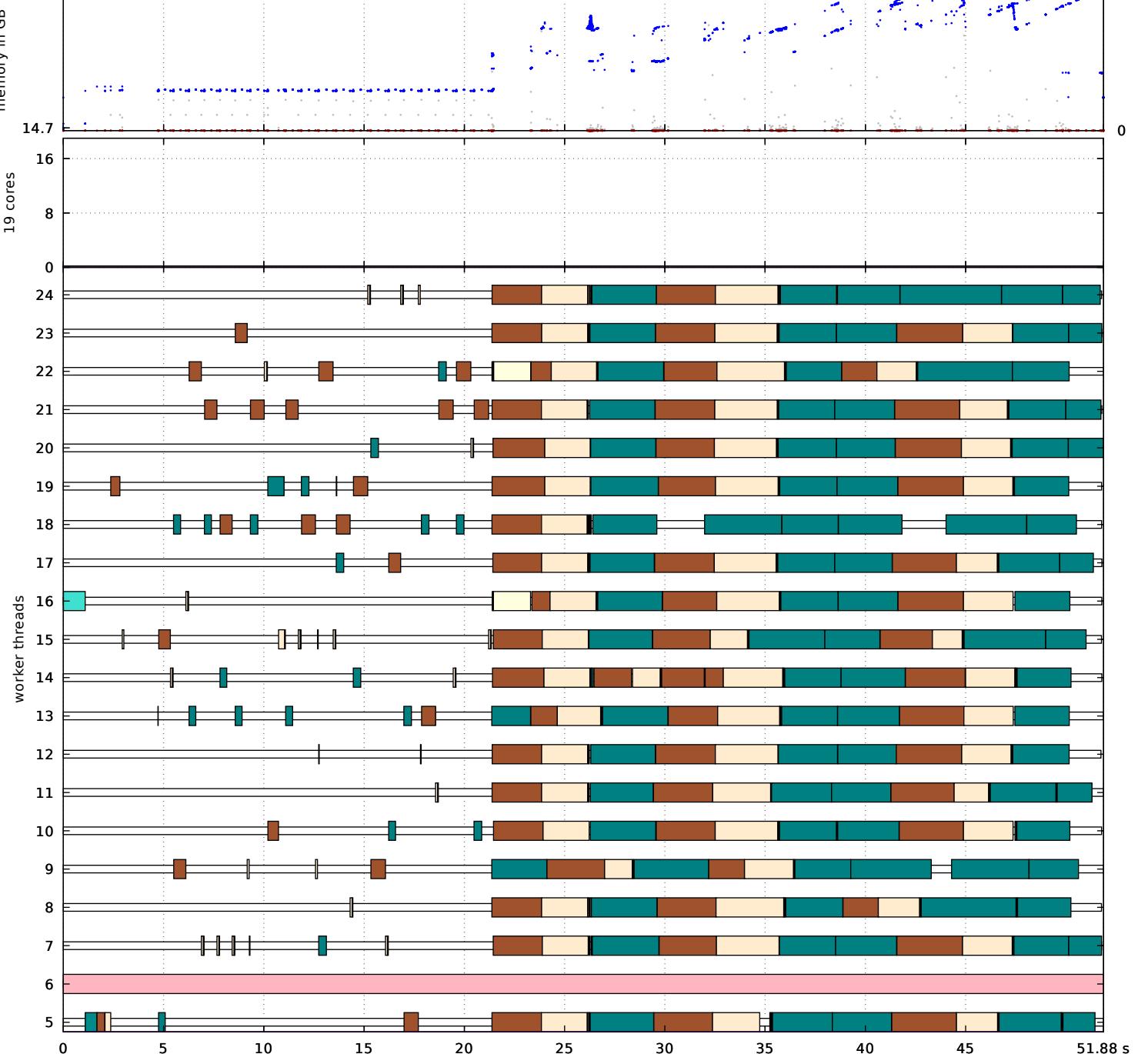


algebra.projectionpath 396 calls: 4 m 10 s	sql.projectdelta 79 calls: 1 m 39 s	language.dataflow 1 call: 1 m 18 s
algebra.thetaselect 80 calls: 1 m 06 s	algebra.join 79 calls: 42.271 s	algebra.projection 473 calls: 595.596 ms
group.subgroupdone 79 calls: 497.918 ms	sql.bind 315 calls: 432.672 ms	sql.bind_idxbat 160 calls: 243.577 ms
language.pass 874 calls: 206.530 ms	mat.packIncrement 468 calls: 186.528 ms	aggr.subsum 79 calls: 184.791 ms
group.subgroup 79 calls: 135.742 ms	group.group 79 calls: 58.613 ms	batcalc.* 78 calls: 45.965 ms
batcalc. 78 calls: 44.600 ms	sql.tid 80 calls: 23.160 ms	algebra.firstn 2 calls: 13.144 ms
language.block 128 calls: 13.039 ms	bat.append 20 calls: 4.482 ms	bat.new 5 calls: 2.308 ms
algebra.sort 2 calls: 516 us	sql.resultSet 1 call: 289 us	sql.mvc 1 call: 197 us
algebra.subslice 1 call: 162 us	* 1 call: 99 us	querylog.define 1 call: 97 us

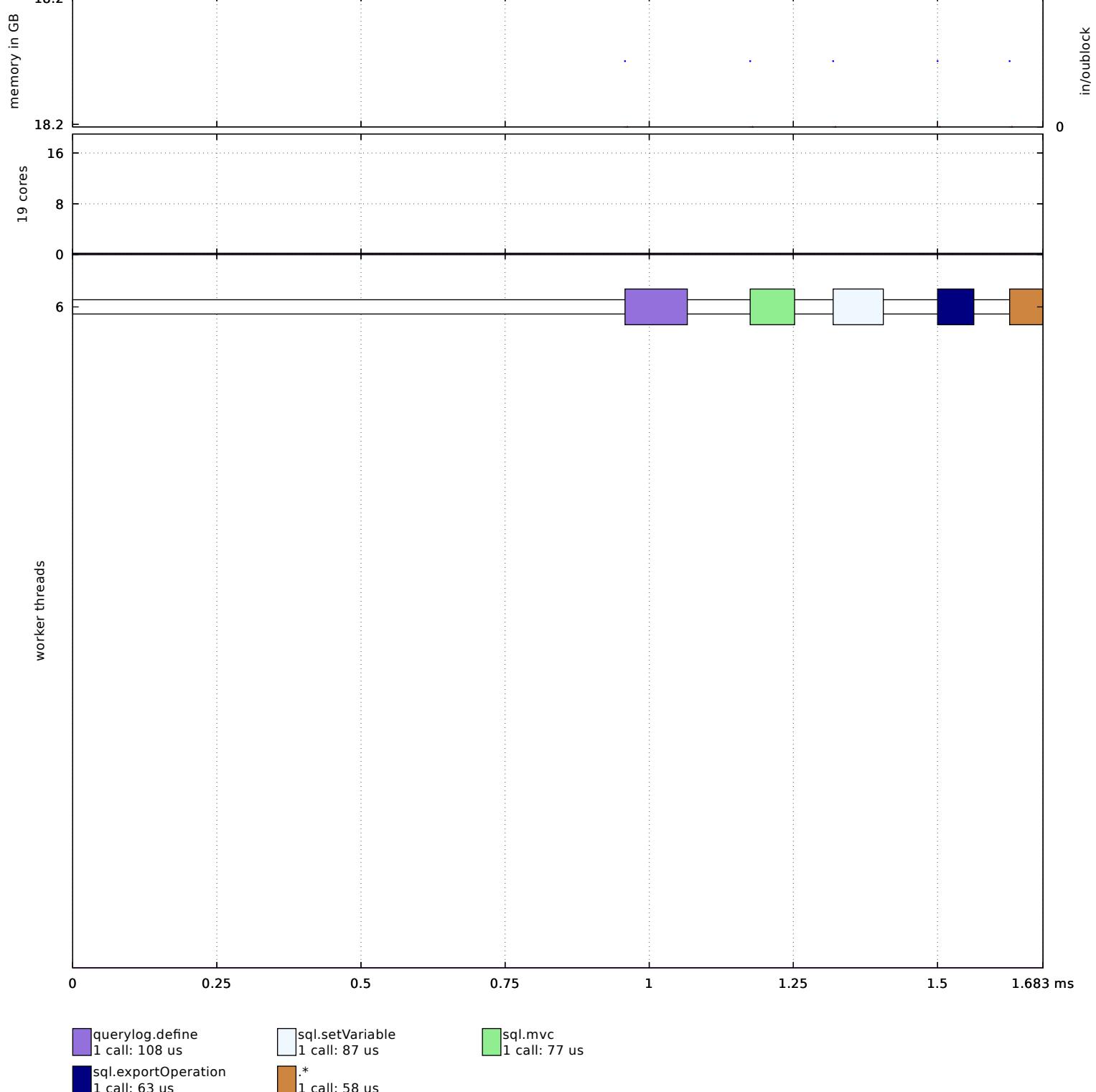


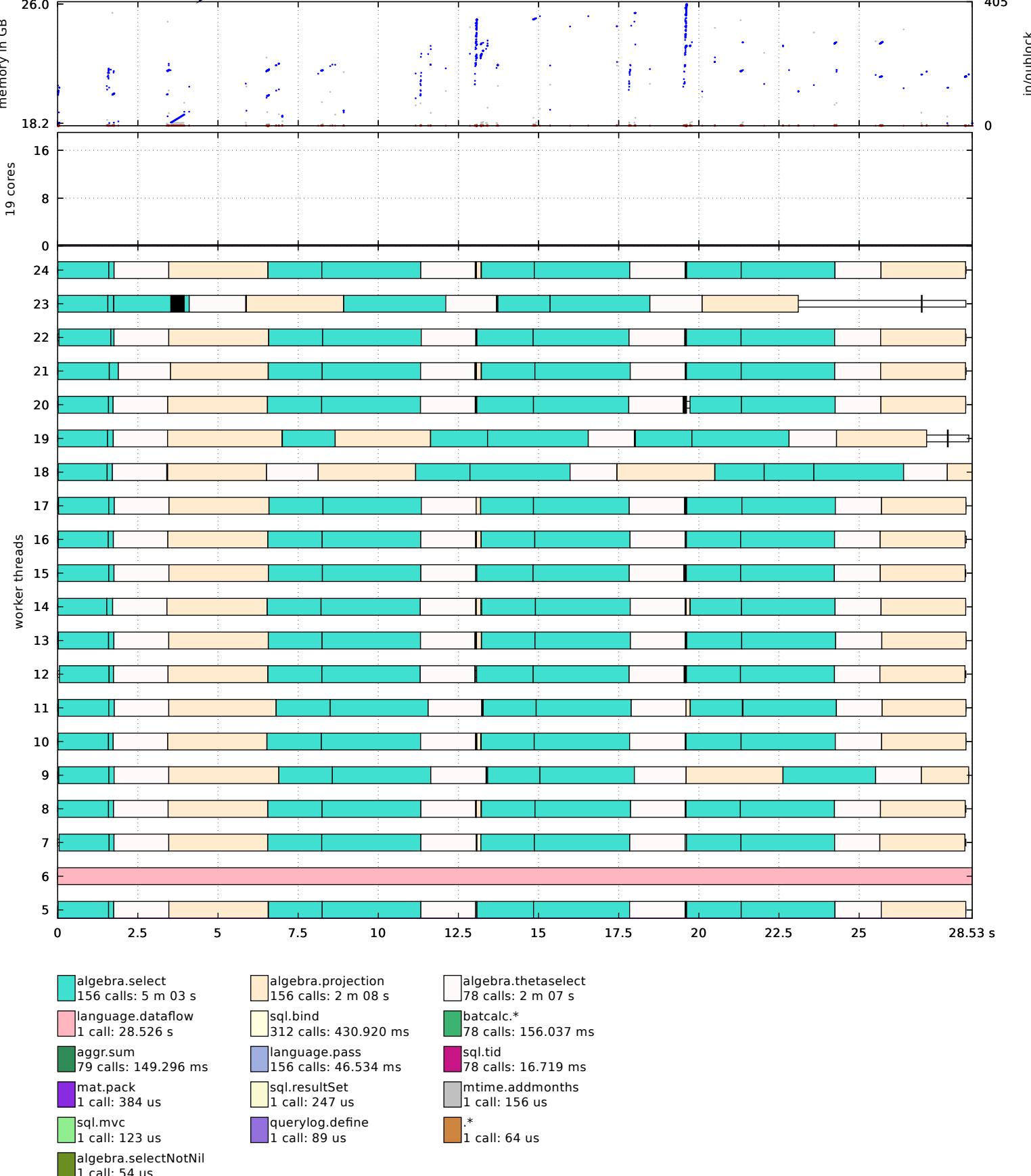


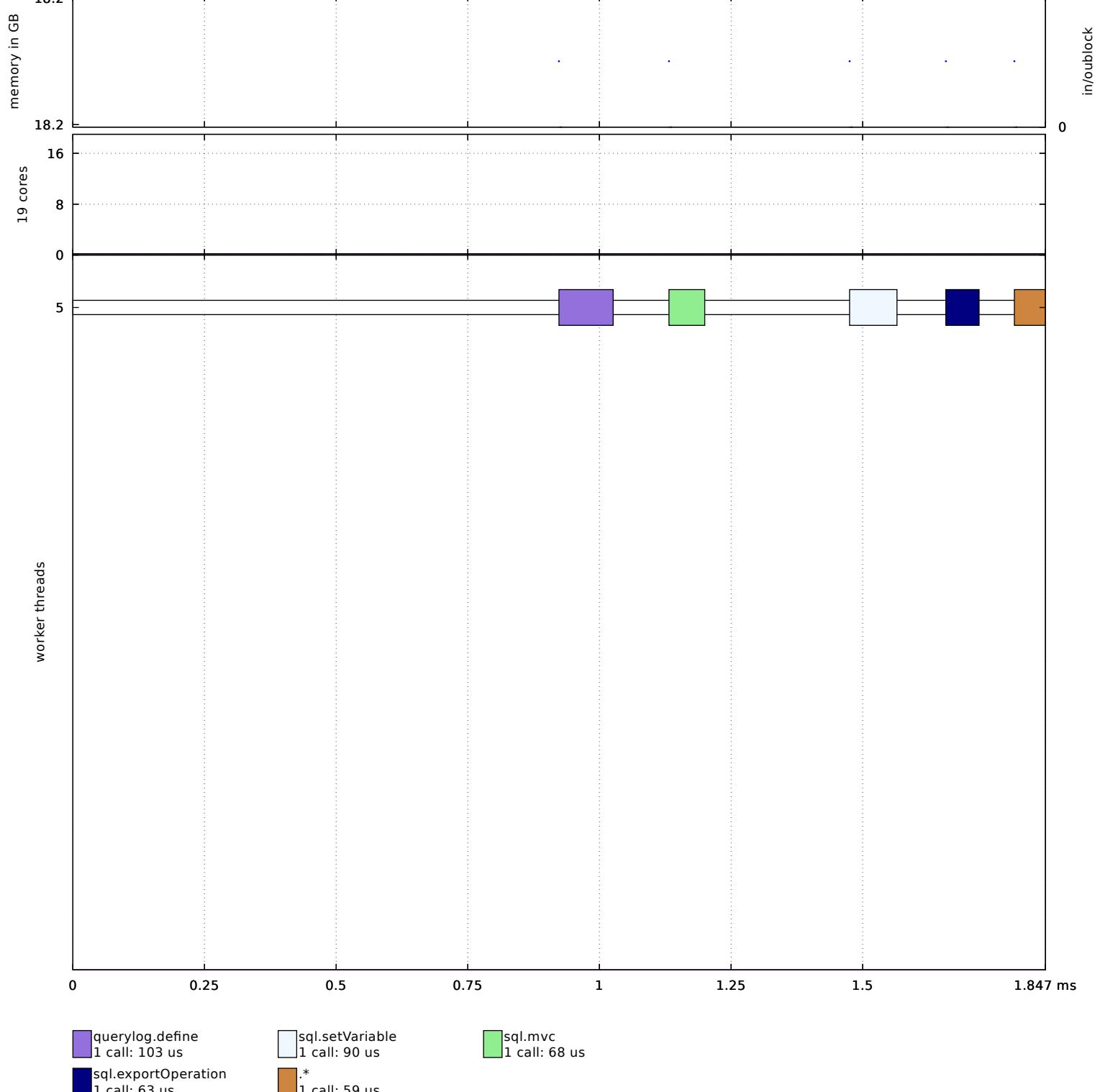


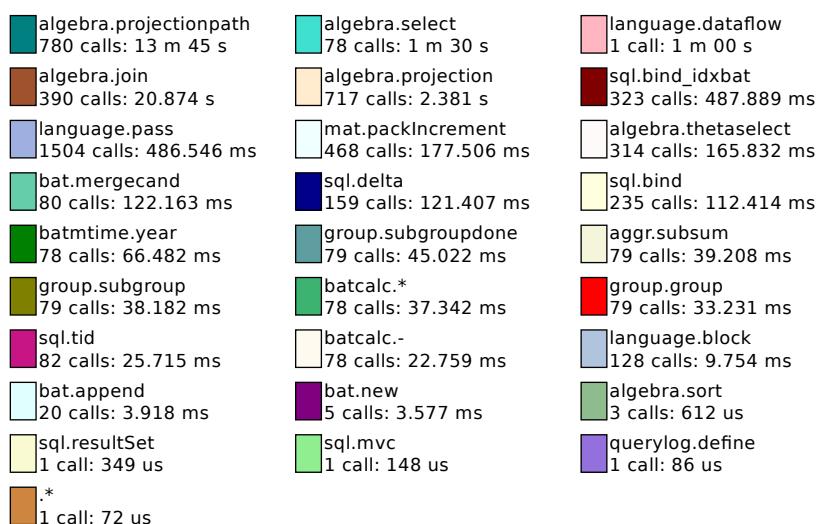
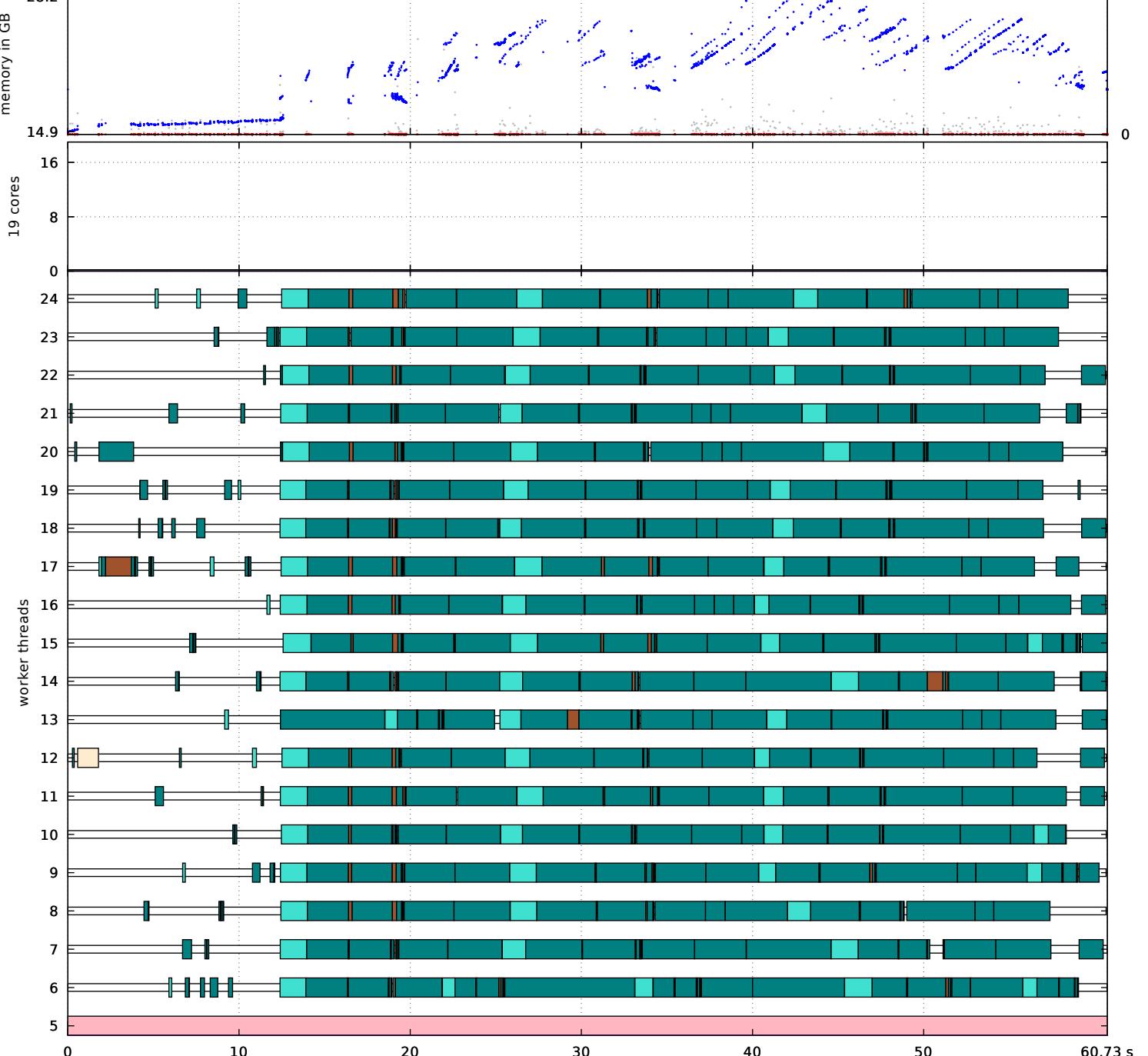


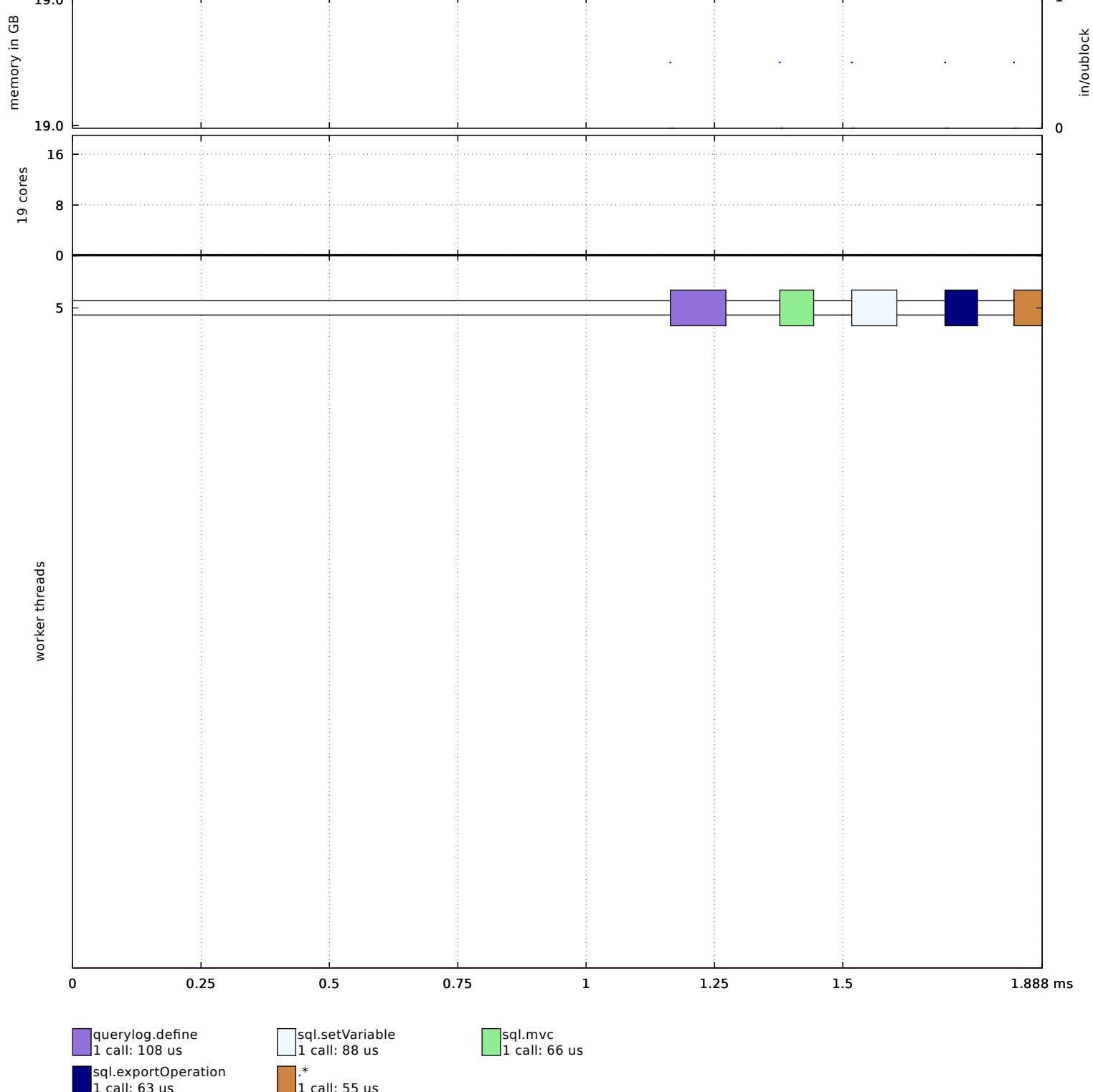
algebra.projectionpath 392 calls: 4 m 51 s	algebra.join 313 calls: 2 m 48 s	algebra.projection 394 calls: 2 m 26 s
language.dataflow 1 call: 51.875 s	sql.bind 161 calls: 3.769 s	algebra.select 79 calls: 1.358 s
sql.projectdelta 159 calls: 757.318 ms	batcalc.=== 78 calls: 524.943 ms	sql.bind_idxbat 323 calls: 417.931 ms
language.pass 873 calls: 202.286 ms	aggr.subsum 79 calls: 38.107 ms	group.groupdone 79 calls: 32.423 ms
batcalc.- 78 calls: 26.801 ms	batcalc.* 78 calls: 25.240 ms	mat.packIncrement 156 calls: 22.735 ms
sql.tid 83 calls: 17.673 ms	language.block 128 calls: 10.894 ms	bat.append 10 calls: 3.975 ms
bat.new 5 calls: 2.338 ms	sql.resultSet 1 call: 400 us	mtime.addmonths 1 call: 310 us
sql.mvc 1 call: 141 us	algebra.thetaselect 1 call: 127 us	algebra.sort 1 call: 117 us
querylog.define 1 call: 109 us	* 1 call: 67 us	

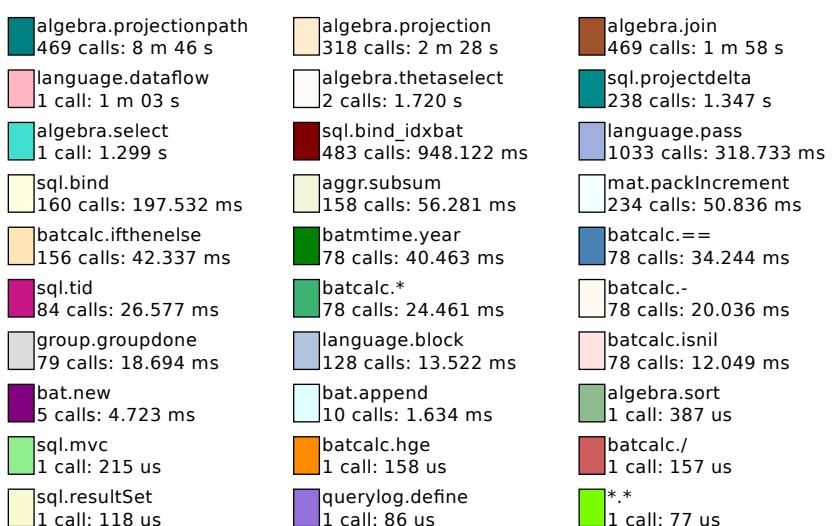
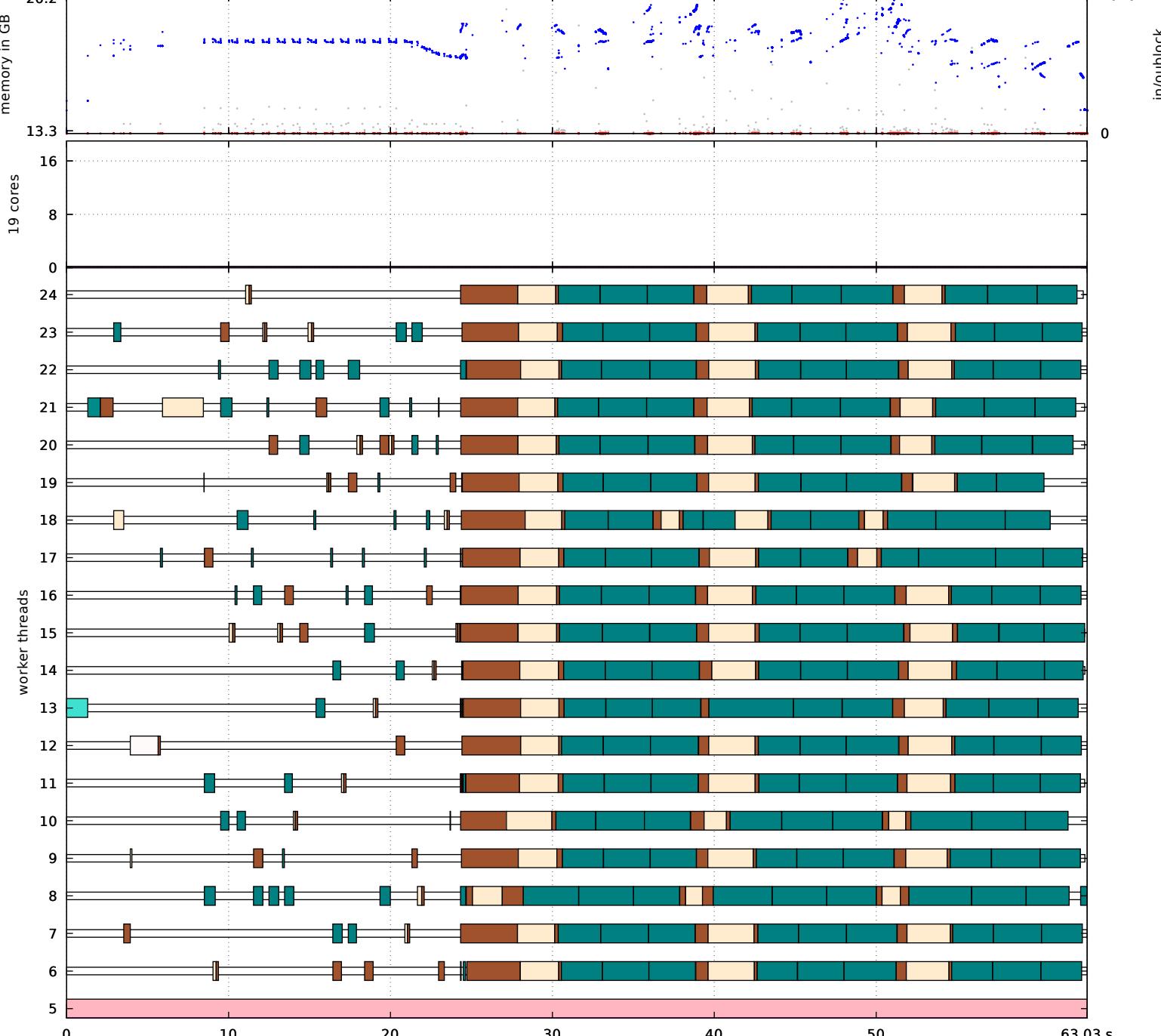


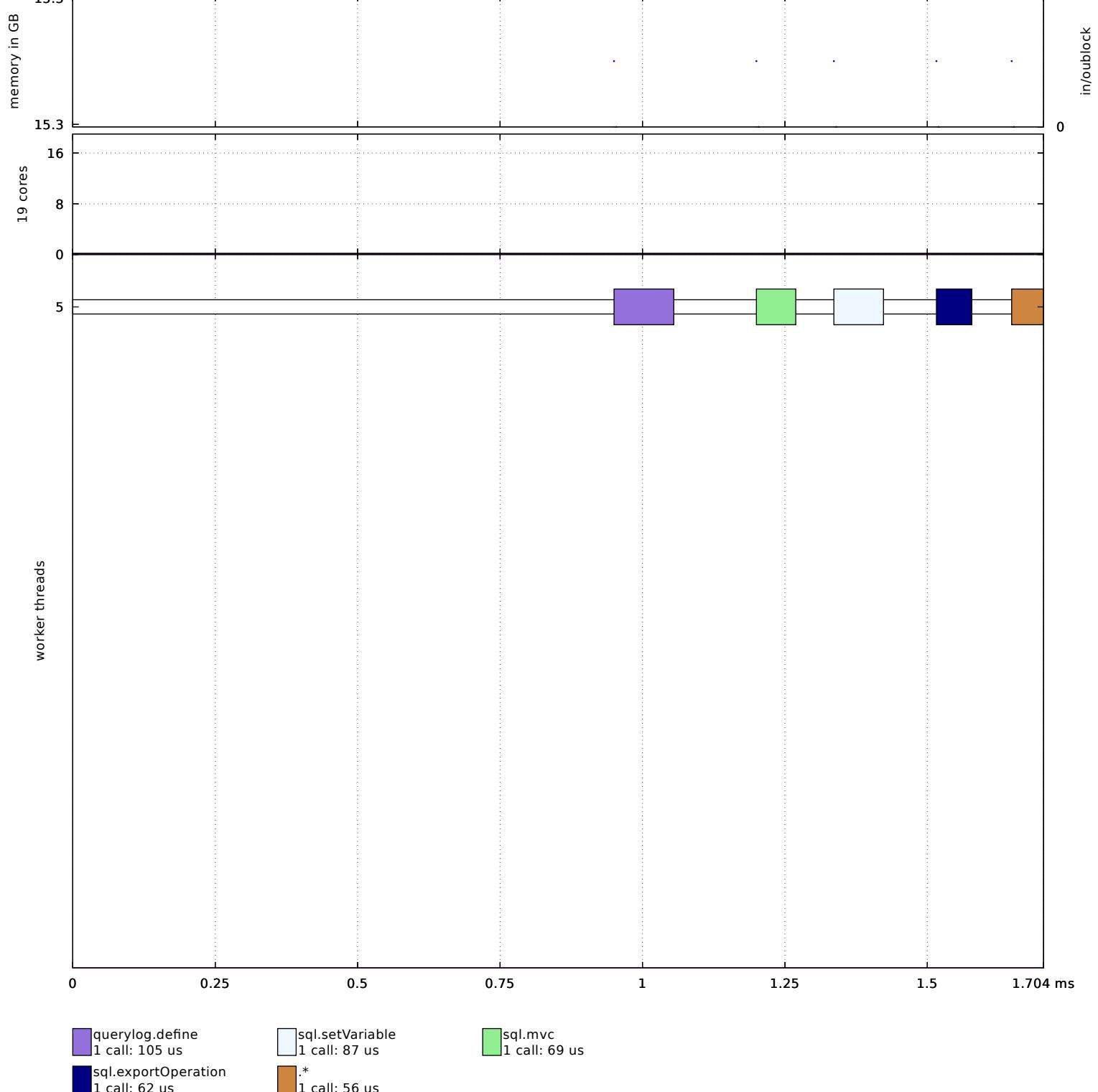


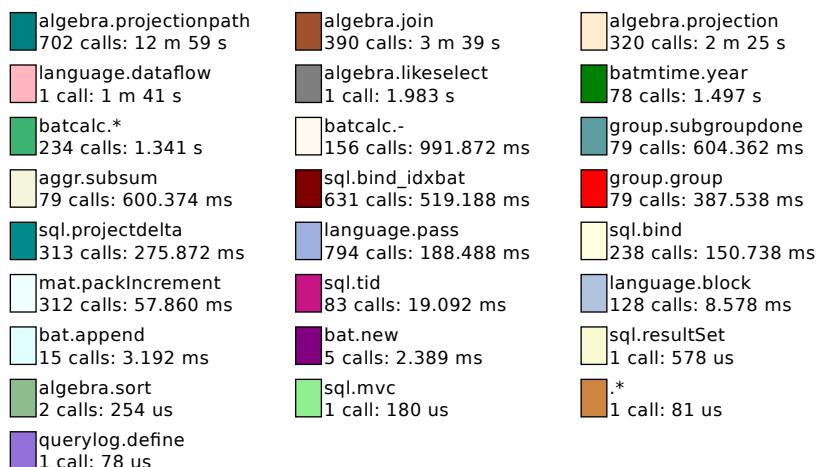
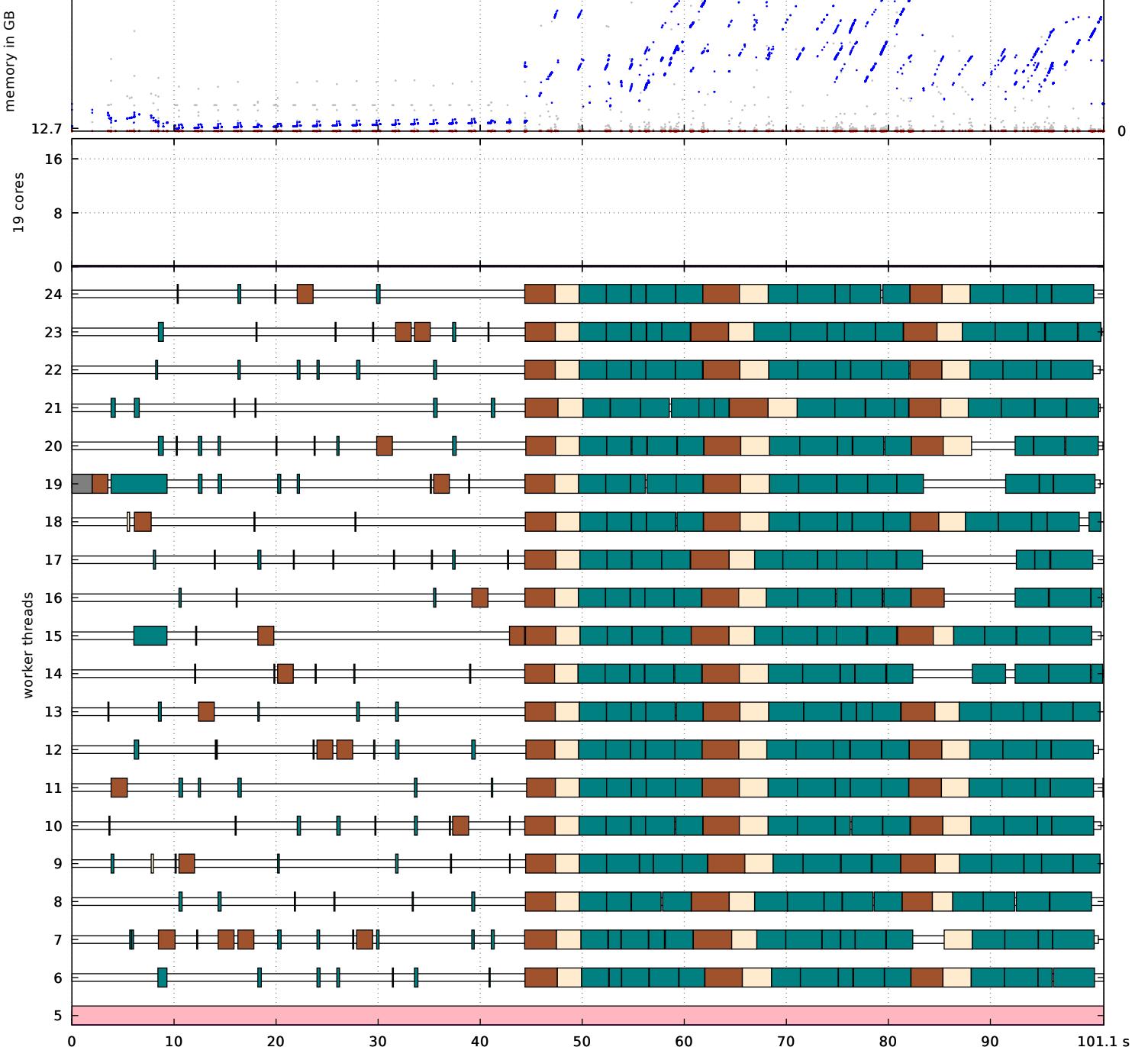


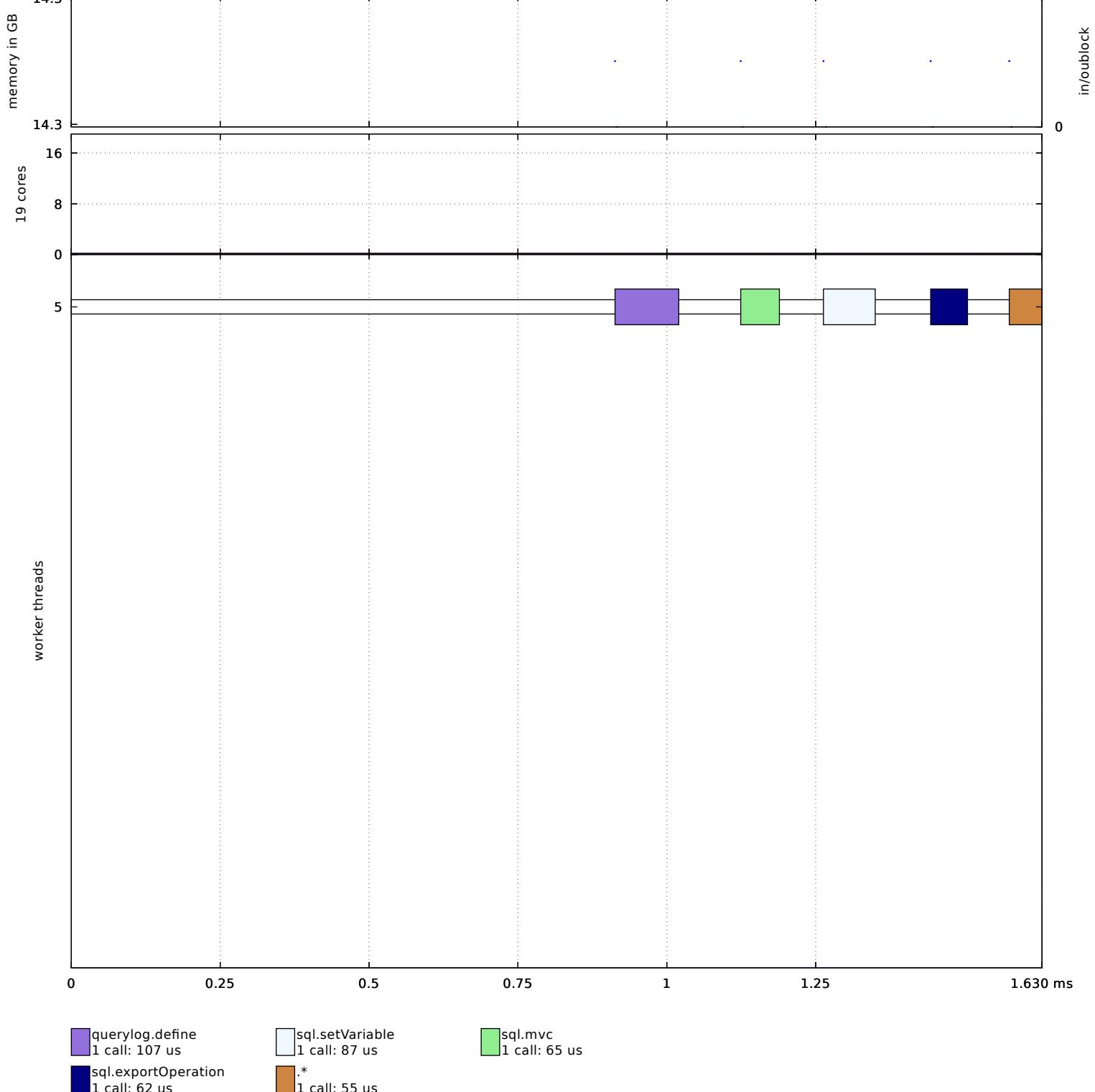








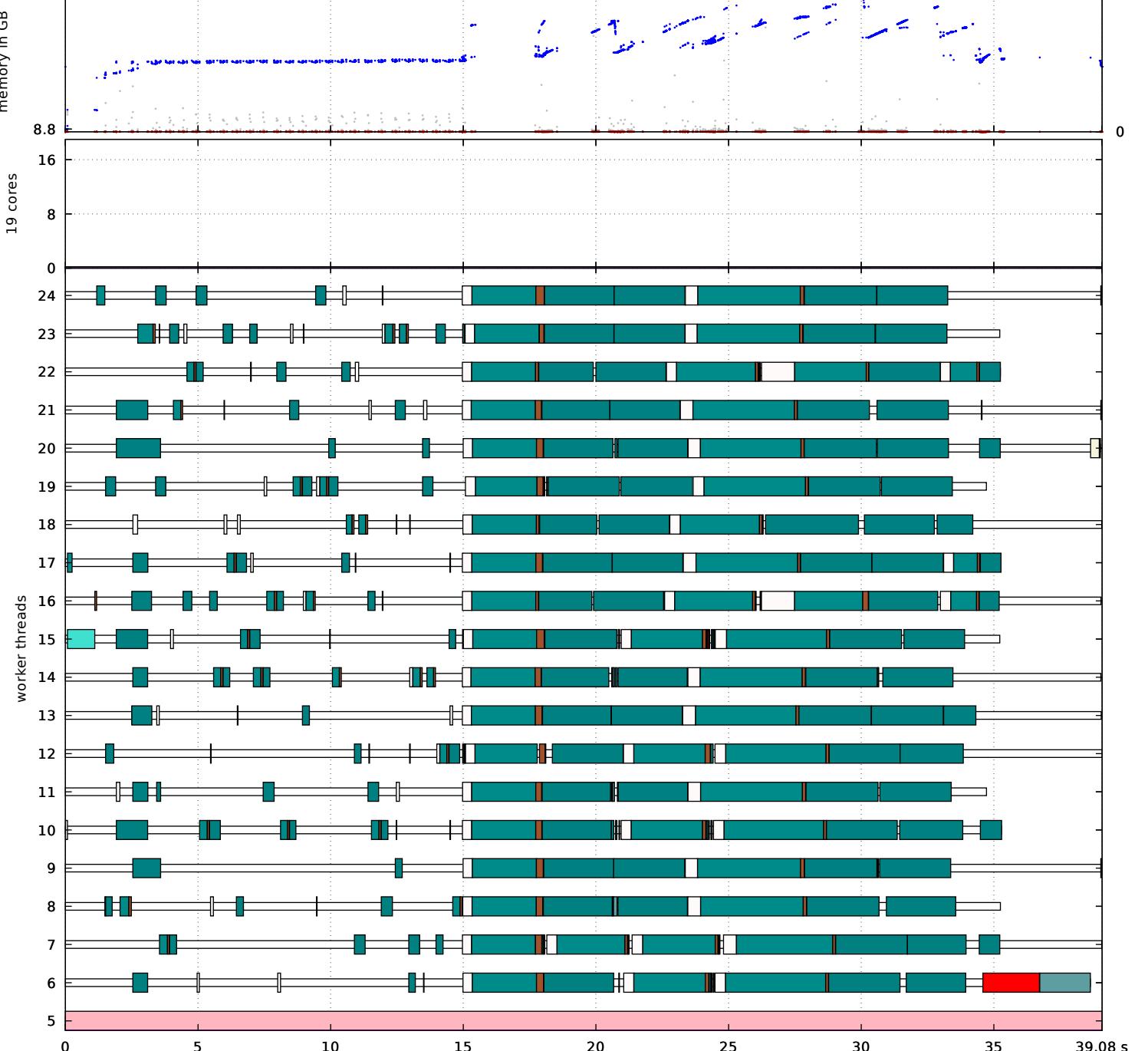


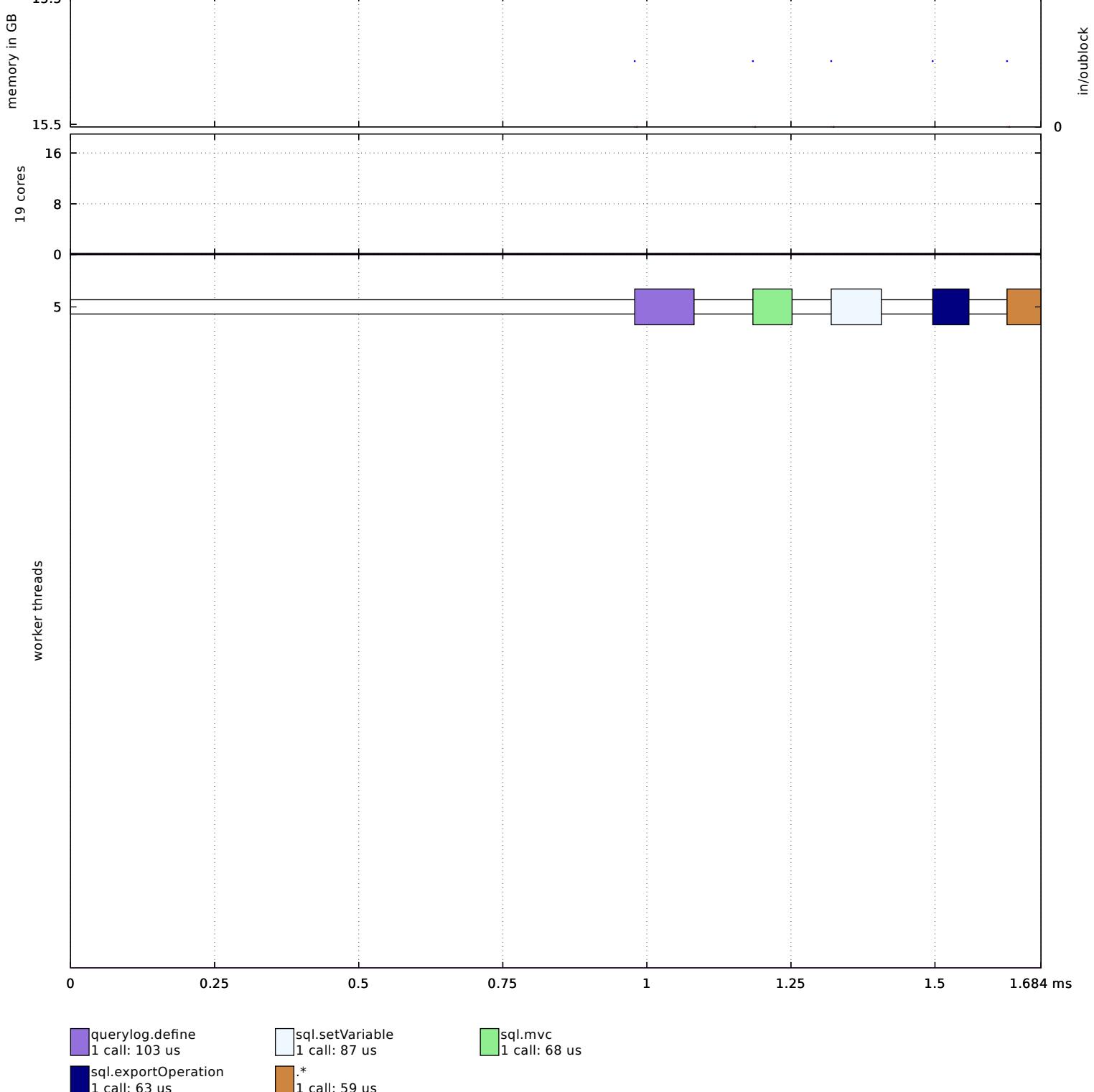


querylog.define
1 call: 107 us
sql.exportOperation
1 call: 62 us

sql.setVariable
1 call: 87 us
. *.
1 call: 55 us

sql.mvc
1 call: 65 us





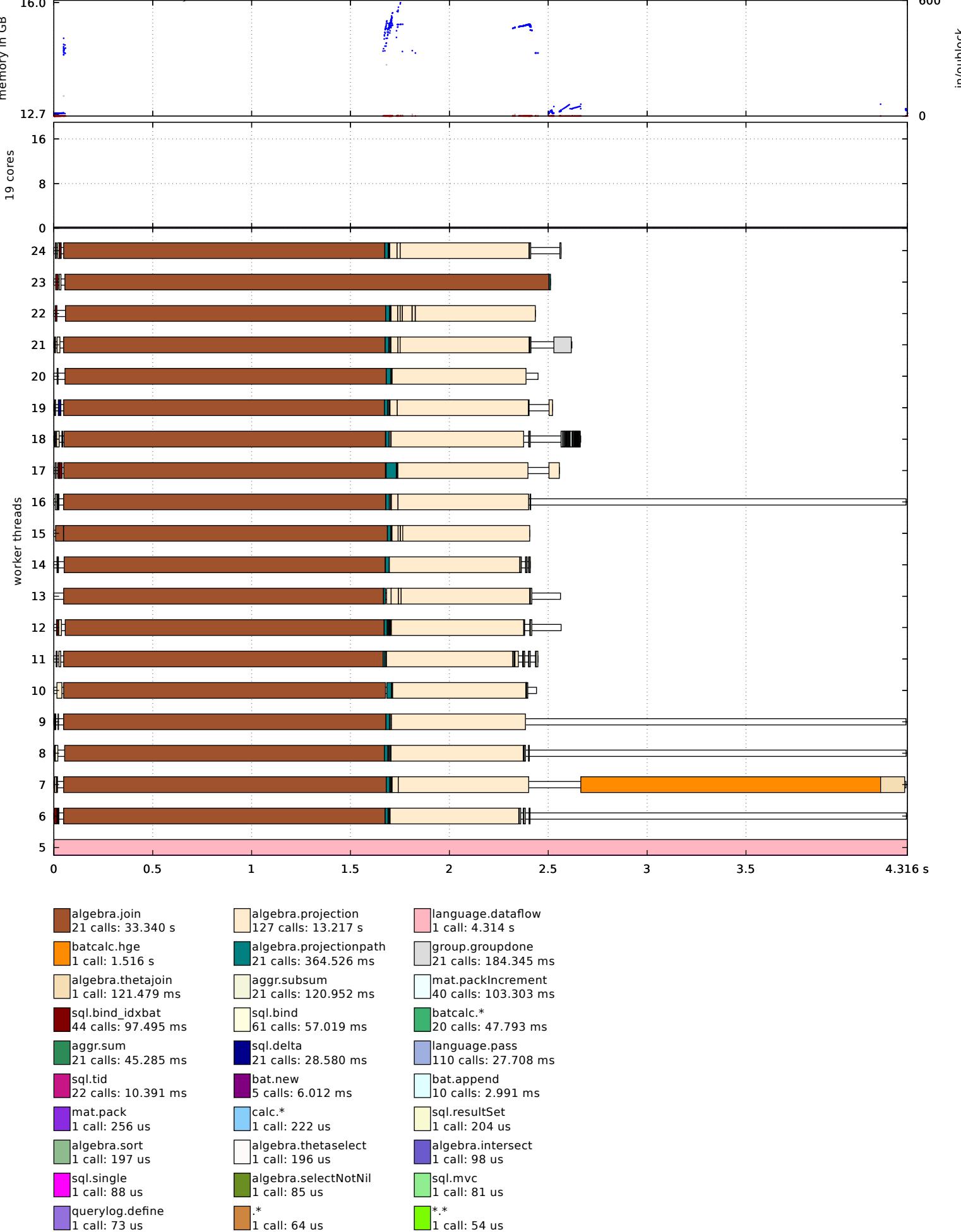
querylog.define
1 call: 103 us

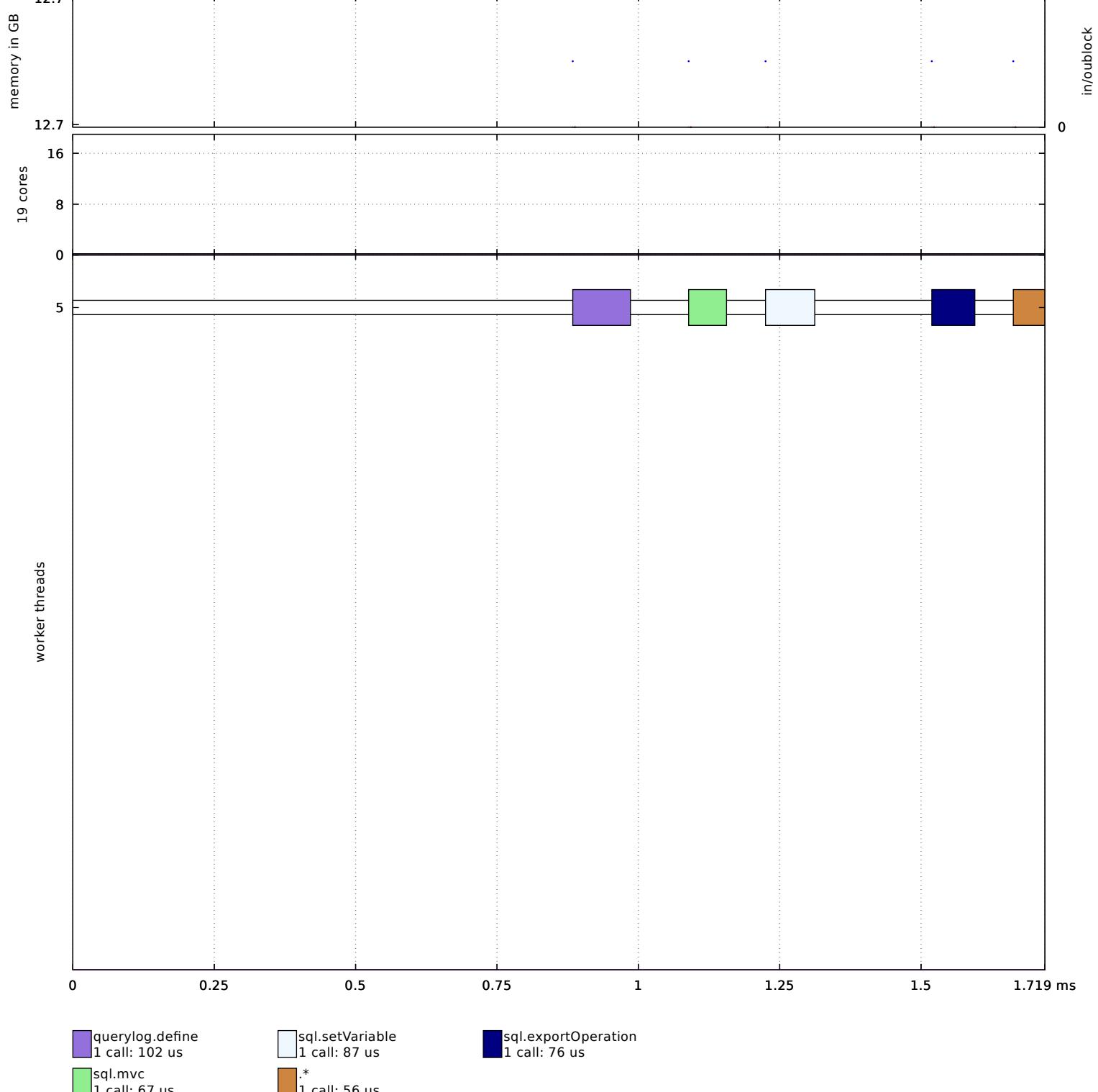
sql.exportOperation
1 call: 63 us

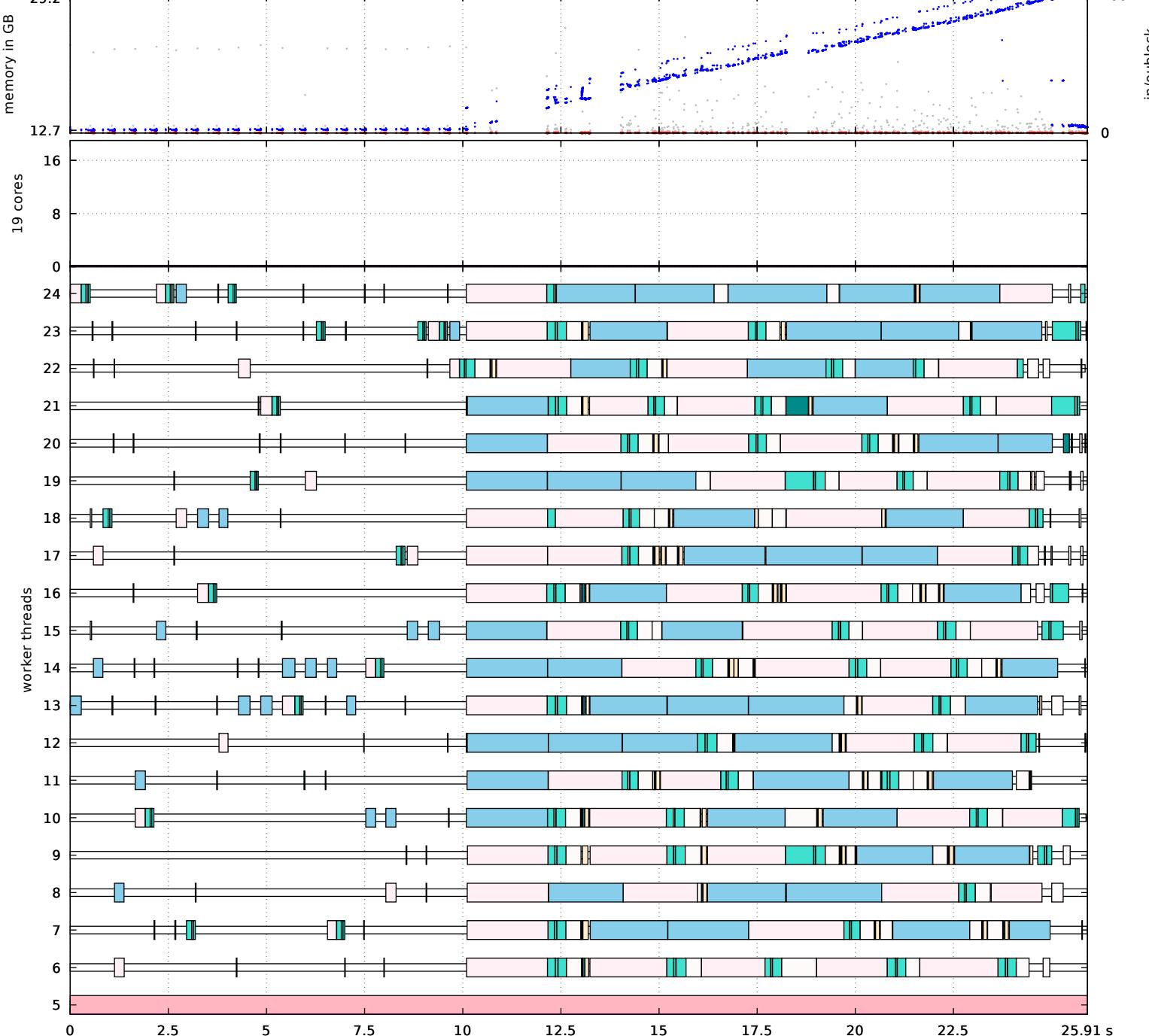
sql.setVariable
1 call: 87 us

.*
1 call: 59 us

sql.mvc
1 call: 68 us







batcalc.>	batcalc.<	algebra.thetaselect
78 calls: 2 m 01 s	78 calls: 1 m 57 s	156 calls: 33.397 s
algebra.select	language.dataflow	algebra.projection
234 calls: 31.599 s	1 call: 25.911 s	161 calls: 5.266 s
sql.projectdelta	algebra.projectionpath	batcalc.==
78 calls: 2.344 s	78 calls: 597.347 ms	156 calls: 468.564 ms
batcalc.!≠	language.pass	batcalc.ifthenelse
156 calls: 464.945 ms	943 calls: 283.366 ms	312 calls: 232.113 ms
sql.bind_idxbat	sql.bind	aggr.subsum
157 calls: 204.446 ms	313 calls: 172.902 ms	158 calls: 164.062 ms
group.groupdone	bat.mergeand	batcalc.and
79 calls: 154.464 ms	156 calls: 127.588 ms	78 calls: 114.314 ms
batcalc.or	algebra.join	batcalc.isnil
78 calls: 107.229 ms	78 calls: 47.157 ms	156 calls: 36.519 ms
mat.packIncrement	sql.tid	language.block
234 calls: 32.119 ms	79 calls: 23.601 ms	128 calls: 20.018 ms
bat.new	bat.append	sql.mvc
5 calls: 3.475 ms	15 calls: 2.202 ms	1 call: 1.604 ms
algebra.sort	sql.resultSet	*.*
1 call: 301 us	1 call: 261 us	3 calls: 357 us

