



DM

SRM statistics from FTS at CERN

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- SRM statistics from CERN FTS T0-export and T2-import
- 2009-03-01 to 2009-04-30
- Looking into the detailed logs, not in the DB
 - First pass: selecting the SRM calls only
T0: 8.4GB T2: 1.5GB
 - Second pass: statistics
- “work in progress”
 - Polling ratio (getStatus/get, putStatus/put)
 - completed/failed ratio
 - Latency histogram
 - Latency and number of calls daily statistics
- Only FTS statistics, not all clients
 - T0/T1 numbers are expected to be similar (yet)
 - T2 numbers are expected to be very different

Statistics per SRM method:

srm2__srmStatusOfPutRequest	1691250 calls	17%	0.184 seconds/call
srm2__srmPing	1601899 calls	16.1%	0.171 seconds/call
srm2__srmLs	1494377 calls	15%	0.182 seconds/call
srm2__srmStatusOfGetRequest	1164878 calls	11.7%	0.317 seconds/call
srm2__srmReleaseFiles	873736 calls	8.79%	0.205 seconds/call
srm2__srmPrepareToGet	873705 calls	8.79%	0.224 seconds/call
srm2__srmPutDone	728122 calls	7.33%	0.896 seconds/call
srm2__srmGetSpaceTokens	728120 calls	7.33%	0.165 seconds/call
srm2__srmPrepareToPut	728105 calls	7.33%	0.198 seconds/call
srm2__srmMkdir	38146 calls	0.384%	0.206 seconds/call
srm2__srmAbortRequest	13119 calls	0.132%	0.323 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	873705 calls	54.5%	12.9 seconds/call
srm2__srmPrepareToPut	728105 calls	45.5%	31.1 seconds/call

Statistics per SRM method:

srm2__srmStatusOfGetRequest	1297744 calls	35.3%	0.248 seconds/call
srm2__srmPing	1146531 calls	31.2%	0.23 seconds/call
srm2__srmPrepareToGet	219492 calls	5.97%	0.304 seconds/call
srm2__srmReleaseFiles	219452 calls	5.97%	0.302 seconds/call
srm2__srmAbortRequest	201047 calls	5.47%	0.471 seconds/call
srm2__srmLs	180472 calls	4.91%	0.868 seconds/call
srm2__srmStatusOfPutRequest	139844 calls	3.81%	1.13 seconds/call
srm2__srmGetSpaceTokens	90038 calls	2.45%	1.07 seconds/call
srm2__srmPrepareToPut	89949 calls	2.45%	0.813 seconds/call
srm2__srmRm	88921 calls	2.42%	3.88 seconds/call
srm2__srmMkdir	518 calls	0.0141%	1.99 seconds/call
srm2__srmPutDone	168 calls	0.00457%	16.8 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	219492 calls	70.9%	41.9 seconds/call
srm2__srmPrepareToPut	89949 calls	29.1%	9.39 seconds/call



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Statistics per SRM method:

srm2__srmPing	309383 calls	19.8%	0.266 seconds/call
srm2__srmStatusOfGetRequest	269772 calls	17.3%	1.71 seconds/call
srm2__srmReleaseFiles	249770 calls	16%	0.27 seconds/call
srm2__srmPrepareToGet	248309 calls	15.9%	0.498 seconds/call
srm2__srmStatusOfPutRequest	175827 calls	11.3%	0.203 seconds/call
srm2__srmLs	123860 calls	7.93%	0.176 seconds/call
srm2__srmPutDone	60568 calls	3.88%	2.37 seconds/call
srm2__srmGetSpaceTokens	60566 calls	3.88%	0.178 seconds/call
srm2__srmPrepareToPut	60539 calls	3.87%	0.439 seconds/call
srm2__srmMkdir	2723 calls	0.174%	0.181 seconds/call
srm2__srmAbortRequest	1353 calls	0.0866%	1.78 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	248309 calls	80.4%	7.8 seconds/call
srm2__srmPrepareToPut	60539 calls	19.6%	119 seconds/call

Statistics per SRM method:

srm2__srmStatusOfGetRequest	39614 calls	25.4%	4.23 seconds/call
srm2__srmPing	39472 calls	25.3%	0.833 seconds/call
srm2__srmPrepareToGet	30971 calls	19.9%	0.739 seconds/call
srm2__srmReleaseFiles	30475 calls	19.5%	0.726 seconds/call
srm2__srmStatusOfPutRequest	7289 calls	4.67%	2.13 seconds/call
srm2__srmAbortRequest	3480 calls	2.23%	8.02 seconds/call
srm2__srmLs	1883 calls	1.21%	4.33 seconds/call
srm2__srmGetSpaceTokens	996 calls	0.638%	6.69 seconds/call
srm2__srmRm	855 calls	0.548%	27.6 seconds/call
srm2__srmPrepareToPut	799 calls	0.512%	4.22 seconds/call
srm2__srmPutDone	115 calls	0.0737%	10.4 seconds/call
srm2__srmMkdir	56 calls	0.0359%	2.68 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	30971 calls	97.5%	17.4 seconds/call
srm2__srmPrepareToPut	799 calls	2.51%	82.5 seconds/call

Statistics per SRM method:

srm2__srmStatusOfPutRequest	159658 calls	22.7%	0.395 seconds/call
srm2__srmLs	120354 calls	17.1%	0.246 seconds/call
srm2__srmPing	91525 calls	13%	0.288 seconds/call
srm2__srmStatusOfGetRequest	76192 calls	10.8%	0.31 seconds/call
srm2__srmGetSpaceTokens	47235 calls	6.71%	0.289 seconds/call
srm2__srmPutDone	47226 calls	6.71%	0.453 seconds/call
srm2__srmPrepareToPut	47215 calls	6.71%	0.29 seconds/call
srm2__srmReleaseFiles	44287 calls	6.29%	0.282 seconds/call
srm2__srmPrepareToGet	44279 calls	6.29%	0.258 seconds/call
srm2__srmMkdir	25923 calls	3.68%	0.227 seconds/call
srm2__srmAbortRequest	26 calls	0.00369%	1.98 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	44279 calls	48.4%	11.1 seconds/call
srm2__srmPrepareToPut	47215 calls	51.6%	43.5 seconds/call

Statistics per SRM method:

srm2__srmStatusOfGetRequest	388187 calls	52.8%	0.269 seconds/call
srm2__srmPing	175889 calls	23.9%	0.972 seconds/call
srm2__srmStatusOfPutRequest	66683 calls	9.07%	5.91 seconds/call
srm2__srmAbortRequest	22941 calls	3.12%	8.38 seconds/call
srm2__srmLs	20309 calls	2.76%	17 seconds/call
srm2__srmPrepareToGet	16264 calls	2.21%	0.257 seconds/call
srm2__srmReleaseFiles	15878 calls	2.16%	0.242 seconds/call
srm2__srmGetSpaceTokens	9785 calls	1.33%	17.1 seconds/call
srm2__srmRm	9257 calls	1.26%	26.4 seconds/call
srm2__srmPrepareToPut	9206 calls	1.25%	17.1 seconds/call
srm2__srmMkdir	1007 calls	0.137%	7.18 seconds/call
srm2__srmPutDone	2 calls	0.000272%	99.5 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	16264 calls	63.9%	154 seconds/call
srm2__srmPrepareToPut	9206 calls	36.1%	90.4 seconds/call

Statistics per SRM method:

srm2__srmStatusOfPutRequest	226488 calls	29.3%	0.329 seconds/call
srm2__srmLs	166152 calls	21.5%	0.304 seconds/call
srm2__srmPing	94333 calls	12.2%	0.352 seconds/call
srm2__srmPutDone	81910 calls	10.6%	0.39 seconds/call
srm2__srmGetSpaceTokens	81883 calls	10.6%	0.328 seconds/call
srm2__srmPrepareToPut	81830 calls	10.6%	0.326 seconds/call
srm2__srmStatusOfGetRequest	12559 calls	1.63%	0.425 seconds/call
srm2__srmReleaseFiles	12453 calls	1.61%	0.358 seconds/call
srm2__srmPrepareToGet	12453 calls	1.61%	0.341 seconds/call
srm2__srmMkdir	2358 calls	0.305%	0.337 seconds/call
srm2__srmAbortRequest	17 calls	0.0022%	0.243 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	12453 calls	13.2%	3.87 seconds/call
srm2__srmPrepareToPut	81830 calls	86.8%	203 seconds/call

Statistics per SRM method:

srm2__srmStatusOfPutRequest	42326 calls	48.6%	0.34 seconds/call
srm2__srmStatusOfGetRequest	9281 calls	10.7%	0.365 seconds/call
srm2__srmLs	7799 calls	8.96%	0.842 seconds/call
srm2__srmPing	7745 calls	8.9%	0.332 seconds/call
srm2__srmAbortRequest	4920 calls	5.65%	0.938 seconds/call
srm2__srmGetSpaceTokens	4034 calls	4.64%	0.372 seconds/call
srm2__srmPrepareToPut	3733 calls	4.29%	0.345 seconds/call
srm2__srmRm	3257 calls	3.74%	6.62 seconds/call
srm2__srmReleaseFiles	1885 calls	2.17%	0.341 seconds/call
srm2__srmPrepareToGet	1885 calls	2.17%	0.39 seconds/call
srm2__srmPutDone	90 calls	0.103%	5 seconds/call
srm2__srmMkdir	68 calls	0.0781%	0.311 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	1885 calls	33.6%	86.7 seconds/call
srm2__srmPrepareToPut	3733 calls	66.4%	76.6 seconds/call

Statistics per SRM method:

srm2__srmLs	239201 calls	21.5%	0.48 seconds/call
srm2__srmStatusOfPutRequest	217020 calls	19.5%	0.194 seconds/call
srm2__srmPutDone	107541 calls	9.68%	0.499 seconds/call
srm2__srmPrepareToPut	107541 calls	9.68%	0.184 seconds/call
srm2__srmPing	107541 calls	9.68%	0.191 seconds/call
srm__getRequestStatus	94903 calls	8.54%	0.194 seconds/call
srm2__srmGetSpaceTokens	87450 calls	7.87%	0.193 seconds/call
srm__setFileStatus	62878 calls	5.66%	0.184 seconds/call
srm__ping	31448 calls	2.83%	0.196 seconds/call
srm__get	31448 calls	2.83%	0.201 seconds/call
srm2__srmMkdir	24119 calls	2.17%	0.595 seconds/call

Aggregated statistics:

srm2__srmPrepareToPut	107541 calls	100%	32.4 seconds/call
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Statistics per SRM method:

srm2__srmPing	244260 calls	85.7%	0.012 seconds/call
srm__getRequestStatus	22922 calls	8.04%	0.201 seconds/call
srm__setFileStatus	4127 calls	1.45%	0.183 seconds/call
srm__ping	3198 calls	1.12%	0.151 seconds/call
srm2__srmLs	2567 calls	0.901%	9.02 seconds/call
srm__get	2474 calls	0.868%	0.183 seconds/call
srm2__srmStatusOfPutRequest	1307 calls	0.459%	0.348 seconds/call
srm2__srmPrepareToPut	1075 calls	0.377%	0.244 seconds/call
srm2__srmRm	1002 calls	0.352%	8.38 seconds/call
srm2__srmAbortRequest	999 calls	0.351%	0.305 seconds/call
srm2__srmGetSpaceTokens	746 calls	0.262%	2.84 seconds/call
srm2__srmMkdir	263 calls	0.0923%	31.2 seconds/call
srm2__srmPutDone	7 calls	0.00246%	9.28 seconds/call

Aggregated statistics:

srm2__srmPrepareToPut	1075 calls	100%	6.69 seconds/call
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Statistics per SRM method:

srm2__srmStatusOfPutRequest	84779 calls	25.1%	0.162 seconds/call
srm2__srmPing	57286 calls	16.9%	0.196 seconds/call
srm2__srmPutDone	41676 calls	12.3%	0.46 seconds/call
srm2__srmLs	41674 calls	12.3%	0.488 seconds/call
srm2__srmPrepareToPut	41672 calls	12.3%	0.148 seconds/call
srm2__srmStatusOfGetRequest	20965 calls	6.2%	0.226 seconds/call
srm2__srmReleaseFiles	15567 calls	4.61%	0.218 seconds/call
srm2__srmPrepareToGet	15551 calls	4.6%	0.206 seconds/call
srm2__srmGetSpaceTokens	9245 calls	2.73%	0.175 seconds/call
srm__getRequestStatus	4188 calls	1.24%	0.216 seconds/call
srm__setFileStatus	2710 calls	0.802%	0.163 seconds/call
srm__ping	1355 calls	0.401%	0.233 seconds/call
srm__get	1355 calls	0.401%	0.18 seconds/call
srm2__srmAbortRequest	10 calls	0.00296%	5.65 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	15551 calls	27.2%	6.86 seconds/call
srm2__srmPrepareToPut	41672 calls	72.8%	108 seconds/call

Statistics per SRM method:

srm2__srmStatusOfGetRequest	103338 calls	70.5%	0.175 seconds/call
srm2__srmPing	12658 calls	8.64%	1.65 seconds/call
srm2__srmAbortRequest	7912 calls	5.4%	0.363 seconds/call
srm2__srmPrepareToGet	5760 calls	3.93%	0.842 seconds/call
srm2__srmReleaseFiles	5689 calls	3.88%	0.373 seconds/call
srm2__srmLs	2706 calls	1.85%	1.55 seconds/call
srm2__srmPrepareToPut	2539 calls	1.73%	1.76 seconds/call
srm2__srmRm	2475 calls	1.69%	0.483 seconds/call
srm2__srmStatusOfPutRequest	2426 calls	1.66%	0.204 seconds/call
srm__getRequestStatus	667 calls	0.455%	0.151 seconds/call
srm2__srmGetSpaceTokens	159 calls	0.108%	37.4 seconds/call
srm__setFileStatus	89 calls	0.0607%	0.139 seconds/call
srm__ping	61 calls	0.0416%	0.728 seconds/call
srm__get	58 calls	0.0396%	0.142 seconds/call
srm2__srmPutDone	31 calls	0.0212%	0.117 seconds/call

Aggregated statistics:

srm2__srmPrepareToGet	5760 calls	69.4%	-199 seconds/call
srm2__srmPrepareToPut	2539 calls	30.6%	5.95 seconds/call