

ProfilingRulesWithDprof

Note that this is outdated documentation, you should rather use [HitFreqsRuleTiming](#) plugin, see: [FasterPerformance#Findingslowrules](#)

Profiling Rules With Devel::DProf

To get an idea of rule overhead and speed, the perl module `Devel::DProf` can be used. Here's how:

Create a small corpus suitable for [MassCheck](#).

run a mass-check with `Devel::DProf` loaded, like so:

```
cd masses
rm tmon.out
perl -d:DProf ./mass-check [...usual mass-check switches]
dprofpp -O 999 > profile.out
```

Note that sometimes the `perl -d:DProf` line will produce a core dump! This seems to be a bug in `DProf`, and immediately re-running that line will work fine and produce usable output regardless.

You can also use the `spamassassin` script instead of `mass-check`, but `mass-check` scans more messages, and gives a better idea of per-message performance as it would appear where `spamd` is used.

'profile.out' now contains profiling output from the code. Due to the way that [SpamAssassin](#) compiles runs into perl functions, these will show up in the profile data. Here's an example:

```
Total Elapsed Time = 3.339984 Seconds
  User+System Time = 2.249984 Seconds
Exclusive Times
%Time ExclSec CumulS #Calls sec/call Csec/c Name
9.78 0.220 0.220 2 0.1100 0.1100 Mail::SpamAssassin::PerMsgStatus::DOMAIN_4U2_body_test
6.62 0.149 1.938 104 0.0014 0.0186 Mail::SpamAssassin::PerMsgStatus::BEGIN
6.53 0.147 0.230 2 0.0736 0.1150 Mail::SpamAssassin::Conf::Parser::parse
2.67 0.060 0.288 20 0.0030 0.0144 Mail::SpamAssassin::BEGIN
1.78 0.040 0.040 2 0.0200 0.0200 Mail::SpamAssassin::PerMsgStatus::DRUGS_SMEAR1_body_test
1.78 0.040 0.079 10 0.0040 0.0079 base::import
1.73 0.039 0.066 6 0.0066 0.0110 Mail::SpamAssassin::PerMsgStatus::do_head_tests
1.33 0.030 0.030 2 0.0150 0.0150 Mail::SpamAssassin::PerMsgStatus::__NIGERIAN_BODY_45_body_test
1.33 0.030 0.030 2 0.0150 0.0150 Mail::SpamAssassin::PerMsgStatus::__check_unique_words
1.33 0.030 0.030 2 0.0150 0.0150 Mail::SpamAssassin::PerMsgStatus::__T_FRAUD_235_body_test
1.33 0.030 0.030 3 0.0100 0.0100 Cwd::abs_path
1.33 0.030 0.030 2 0.0150 0.0150 Mail::SpamAssassin::PerMsgStatus::__T_FRAUD_227_body_test
1.33 0.030 0.074 1878 0.0000 0.0000 Mail::SpamAssassin::Conf::__ANON__
1.33 0.030 0.037 1135 0.0000 0.0000 Mail::SpamAssassin::Conf::Parser::add_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::__DRUGS_DIET1_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::DRUG_DOSAGE_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::__DRUGS_ANXIETY3_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::__DRUGS_SLEEP2_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::DIET_3_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::LESBIAN_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::__DRUGS_SLEEP1_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::__DRUGS_ANXIETY5_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::__DRUGS_ANXIETY1_body_test
0.89 0.020 0.020 2 0.0100 0.0100 Mail::SpamAssassin::PerMsgStatus::ONLINE_PHARMACY_body_test
0.89 0.020 0.020 1 0.0200 0.0200 Mail::SpamAssassin::Conf::Parser::finish_parsing
```

The various rules will appear as `Mail::SpamAssassin::PerMsgStatus::RULENAME_type_test`.

More information on the `dprofpp` output format can be read in [the Devel::DProf manual](#).