

Profiling	
profiling	-prof
show runtime-system statistics	+RTS -T
save runtime-system statistics to <i>file</i>	+RTS -t <i>file</i>
all bindings not marked INLINE	-fprof-auto
all top-level bindings not marked INLINE	-fprof-auto-top
all exported bindings not marked INLINE	-fprof-auto-exported
all call sites	-fprof-auto-calls

Flow of Heap Profiling	
compiling with	-prof -fprof-all -rtsopts
running with	+RTS -h*
visualizing with	hp2ps *.hs
colored OUTPUT	hp2ps -c *.hs

- Heap Profiling	
break by cost-center	-hc
break by module	-hm
break by constructor/closure	-hd
break by type	-hy

- hp2ps options	
place rough bands on top	-d
big box for title	-b
EPS for latex	-e
for preview	-g
limit to <i>n</i> bands	-m <i>n</i>
use the previous parameters	-p
color output	-c
ignore marks	-Y
print help	-?

Cheatographer



nash
cheatography.com/nash/

Flow of Time Profiling	
compiling with	-prof -fprof-all -rtsopts
running with	+RTS -p
OUTPUT	*.prof

Flow of Stack Trace	
compiling with	-prof -fprof-all -rtsopts
running with	+RTC -xc

Flow of Code Coverage	
compiling with	-fhpc
running	no options need
reporting	hpc report <i>tix file</i>
making html files	hpc markup <i>tix file</i>
Coverage data is stored in *.tix file.	

- hpc options	
display help	hpc help
report coverage	hpc report
make html files	hpc markup
sum multiple coverages	hpc sum
combine two coverages	hpc combine
show in verbose mode	hpc show
display version	hpc version

Optimization	
optimization level	-On (<i>n</i> =1,2,3,4)
no optimization	-O0
make constructor fields strict	-funbox-strict-fields
static argument transformation	-fstatic-argument-transformation
for IO/ST monad	-fno-state-hack

Cheat Sheet

This cheat sheet was published on 23rd November, 2012 and was last updated on 25th November, 2012.

RTS options for GC	
allocation area size	-A <i>size</i> (default: 512KB)
suggested heap size	-H <i>size</i> (default: 0KB)
maximum heap size	-M <i>size</i> (default: unlimited)

Backends	
Native Code Generator	-fasm
LLVM	-fllvm
-fvia-c is obsolete.	

SMP Parallelism	
Use thread	-threaded
avoid repeated computation of thunks	-feager-blackholing
avoid waiting	-fno-strictness
use <i>n</i> threads	+RTS -N <i>n</i>
use all processors	+RTS -N
pin threads	+RTS -qa
enable auto thread migration	+RTS -qm

- debug parallelism	
make eventlog of parallel sparks (sampled)	-lp (default)
make eventlog of parallel sparks (fully accurate)	-lf
eventlog is stored as *.eventlog	

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