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**NOTES:**

(FAW) denotes problems that are part of the collection of problems assembled by F.J. Radermacher and J. Mayer at the Forschungsinstitut für anwendungsorientierte Wissensverarbeitung in Ulm Germany.


**SSA** (From Allen Van Gelder avg@cs.ucsd.edu and Yumi Tsuji tsuji@cse.ucsc.edu)

Instances from circuit fault analysis: checking for circuit “single–stuck–at” fault. For more instances, see the sat/contributed/UCSC/instances
directory.

**BF** (From Allen Van Gelder avg@cs.ucsd.edu and Yumi Tsuji tsuji@cse.ucsc.edu) Instances from circuit fault analysis: checking for circuit “bridge–fault”. For more instances, see the sat/contributed/UCSC/instances directory.

**Dub** (From Olivier Dubois dubois@laforia.ibp.fr) Instances from the gensathard.c code. For generator see the sat/contributed/dubois directory.

**Par** (From James Crawford jc@research.att.com) Instances that arise from a problem in learning the parity function. For more details, see the README in the sat/contributed/crawford directory.

**LRan** (From Bart Selman selman@research.att.com) Large random satisfiable instances. See also the README.cnf in sat/contributed/selman.

**GC** (From Bart Selman selman@research.att.com) The boolean satisfiability form of a hard graph coloring problem. See also the README.cnf in sat/contributed/selman.

**Hanoi** (From Bart Selman selman@research.att.com) An encoding of the Towers of Hanoi problem. Contact kautz@research.att.com for more information and similar instances. See also the README.cnf file in sat/contributed/selman.

**Pret** (From Daniele Pretolani daniele@crt.umontreal.ca) An encoding of two–coloring a graph, along with a parity constraint to force nonsatisfiability. Generator is in sat/contributed/pretolani.

**JNH** (From John Hooker jh38+@andrew.cmu.edu) (FAW) A set of random instances generated to be difficult by rejecting unit clauses and setting the density to a hard value.

**Hole** (From John Hooker jh38+@andrew.cmu.edu) (FAW) Instance of the pigeon hole problem. holen asks if it is possible to place n+1 pigeons in n holes without two pigeons being in the same hole.

**AIM** (From Eiji Miyano miyano@csce.kyushu-u.ac.jp) Artificially generated 3–sat instances. All the “yes” instances have exactly one satisfying assignment. For generators and further information, see sat/contributed/iwama.