A complete language for EXPSpace: PIM, "Polynomial Ideal Membership"—the simplest natural completeness level that is known not to have polynomial-size circuits.

For any fixed k, there is a problem in this intersection that can NOT be solved by circuits of size O(n^k).

WS_5, the word problem for the symmetric group S_5, is a regular language that is complete for NC^1 under AC^0 many-one reductions.

PIM: Succinct SAT

EXPSPACE

PIM

EXPSpace

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