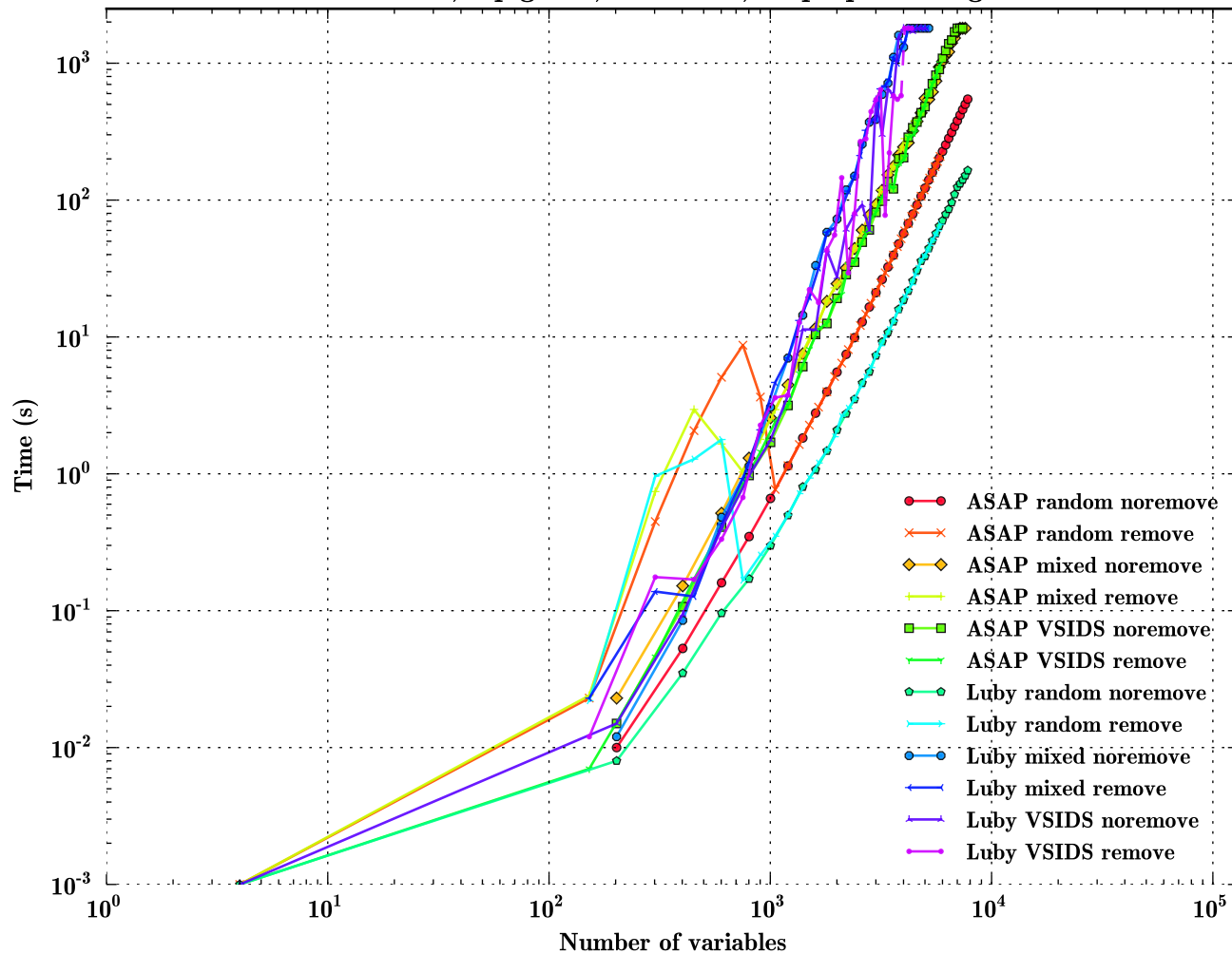
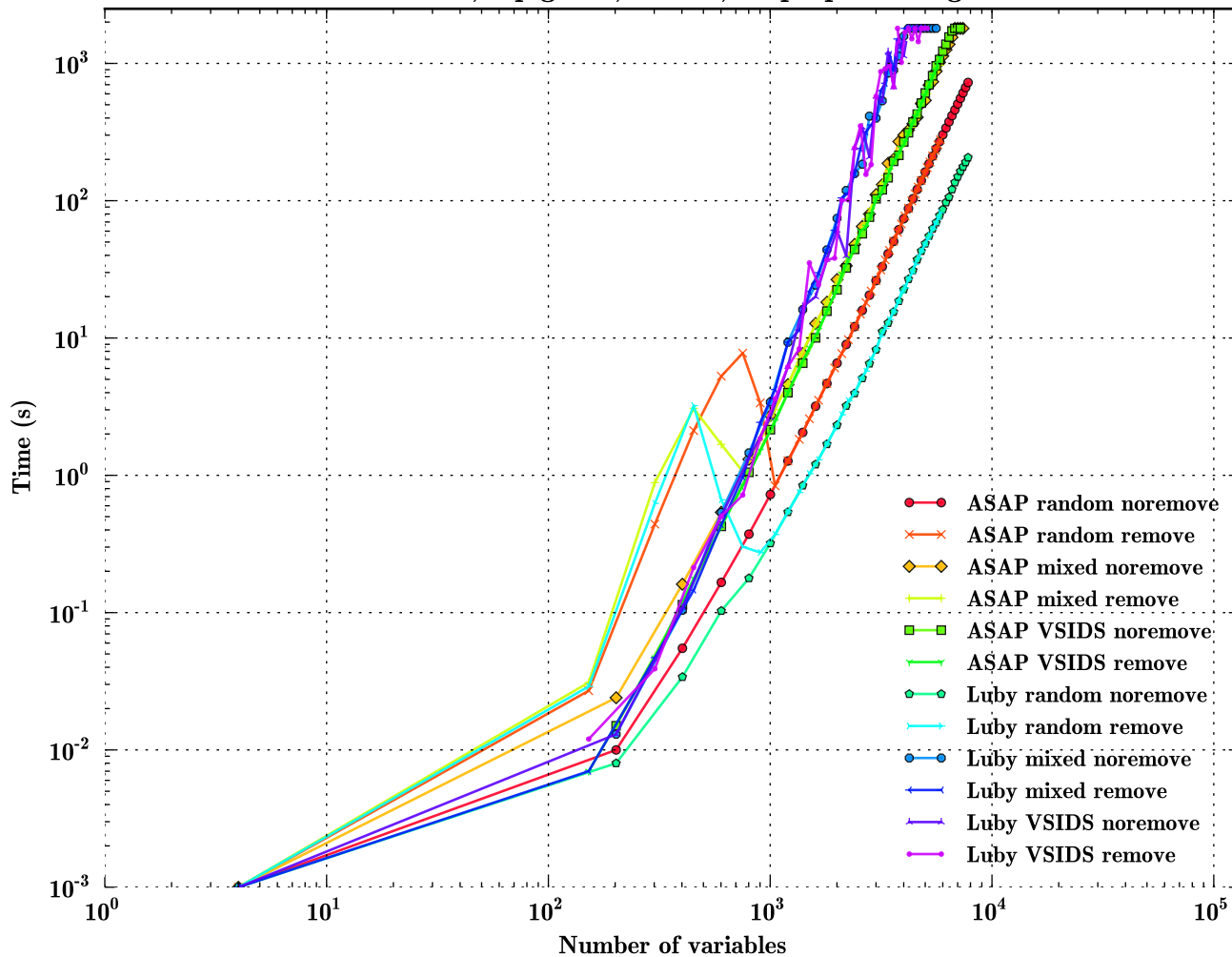


Relativized pigeonhole principle formulas (RPHP)

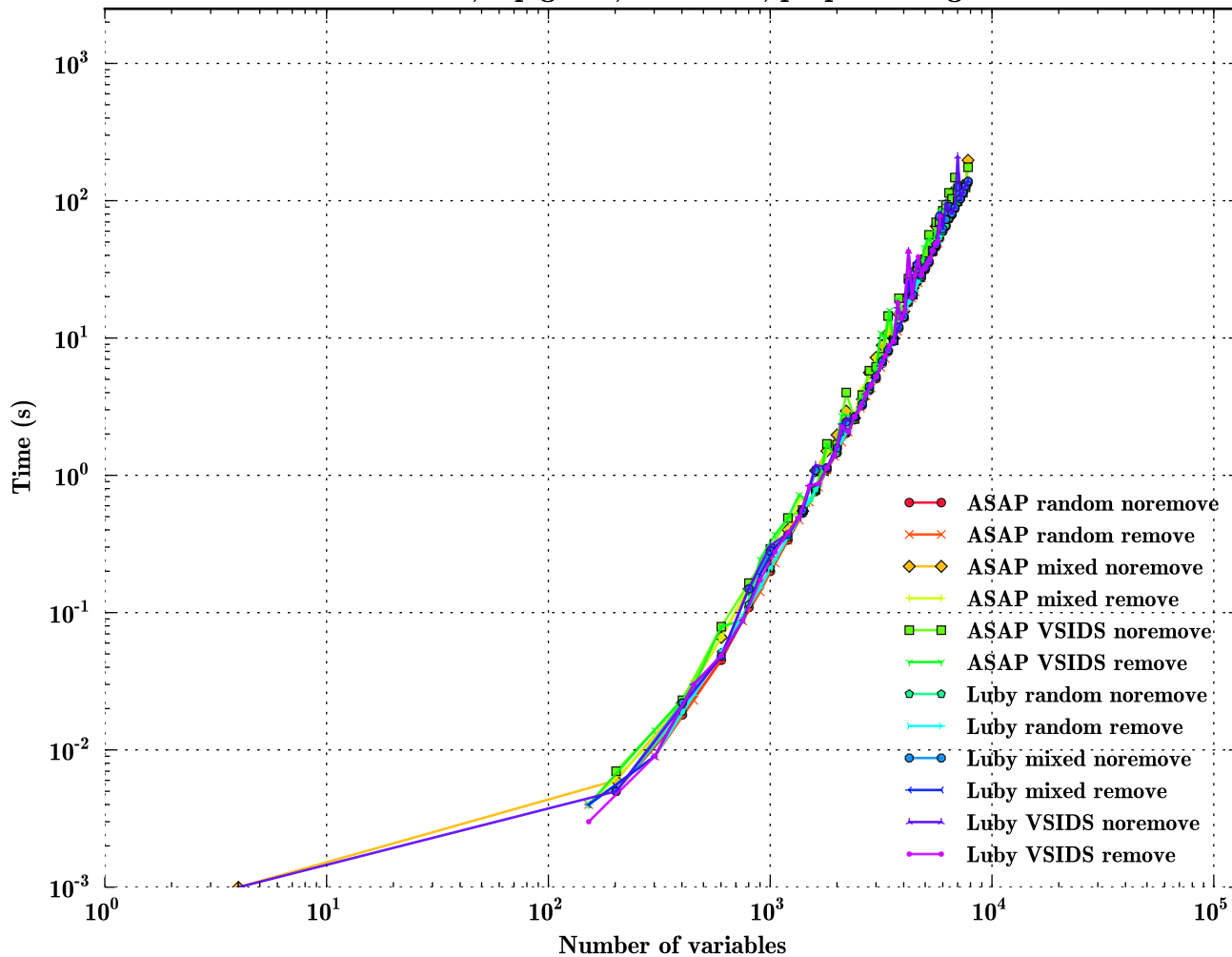
RPHP, 2 pigeons, no shuffle, no preprocessing



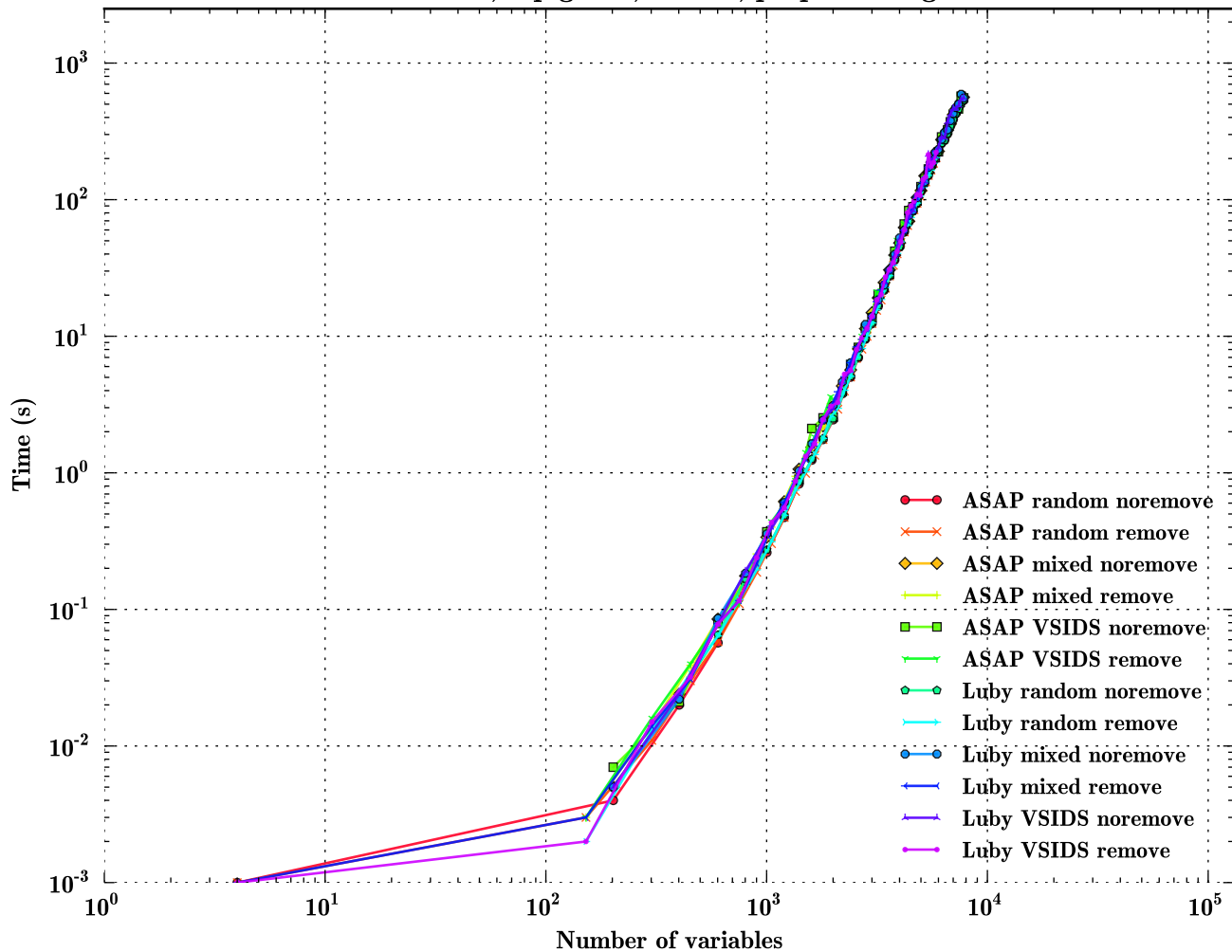
RPHP, 2 pigeons, shuffle, no preprocessing



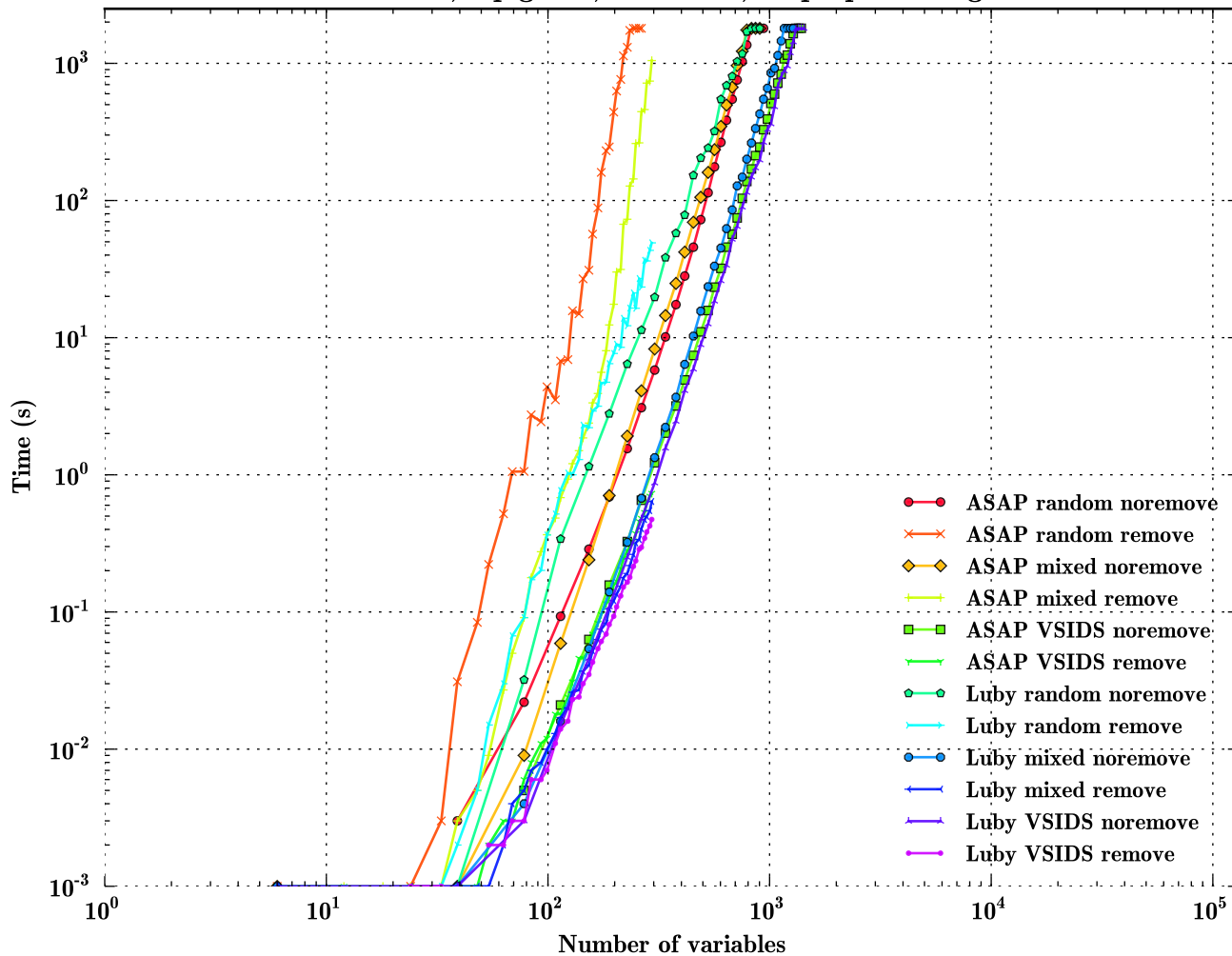
RPHP, 2 pigeons, no shuffle, preprocessing



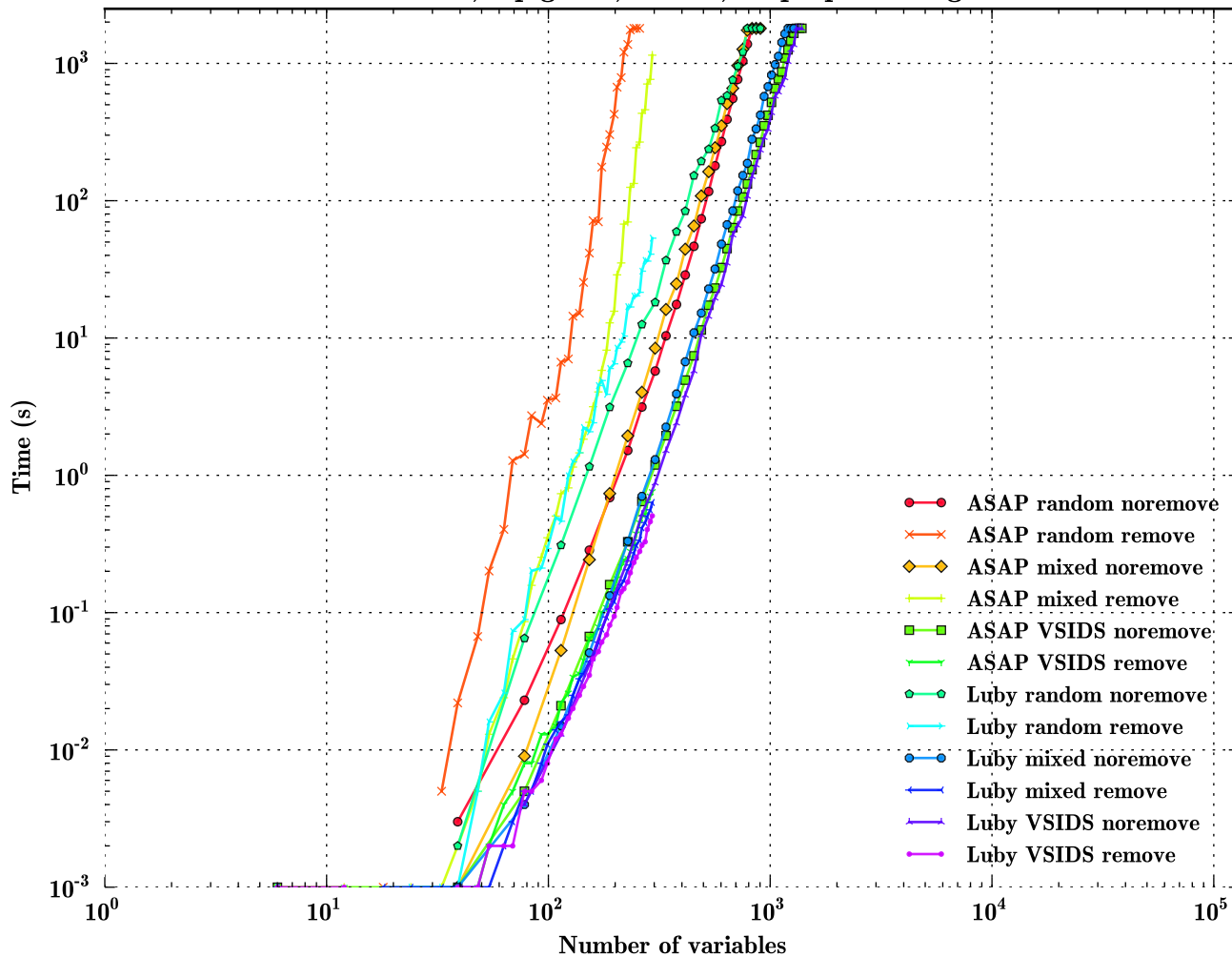
RPHP, 2 pigeons, shuffle, preprocessing



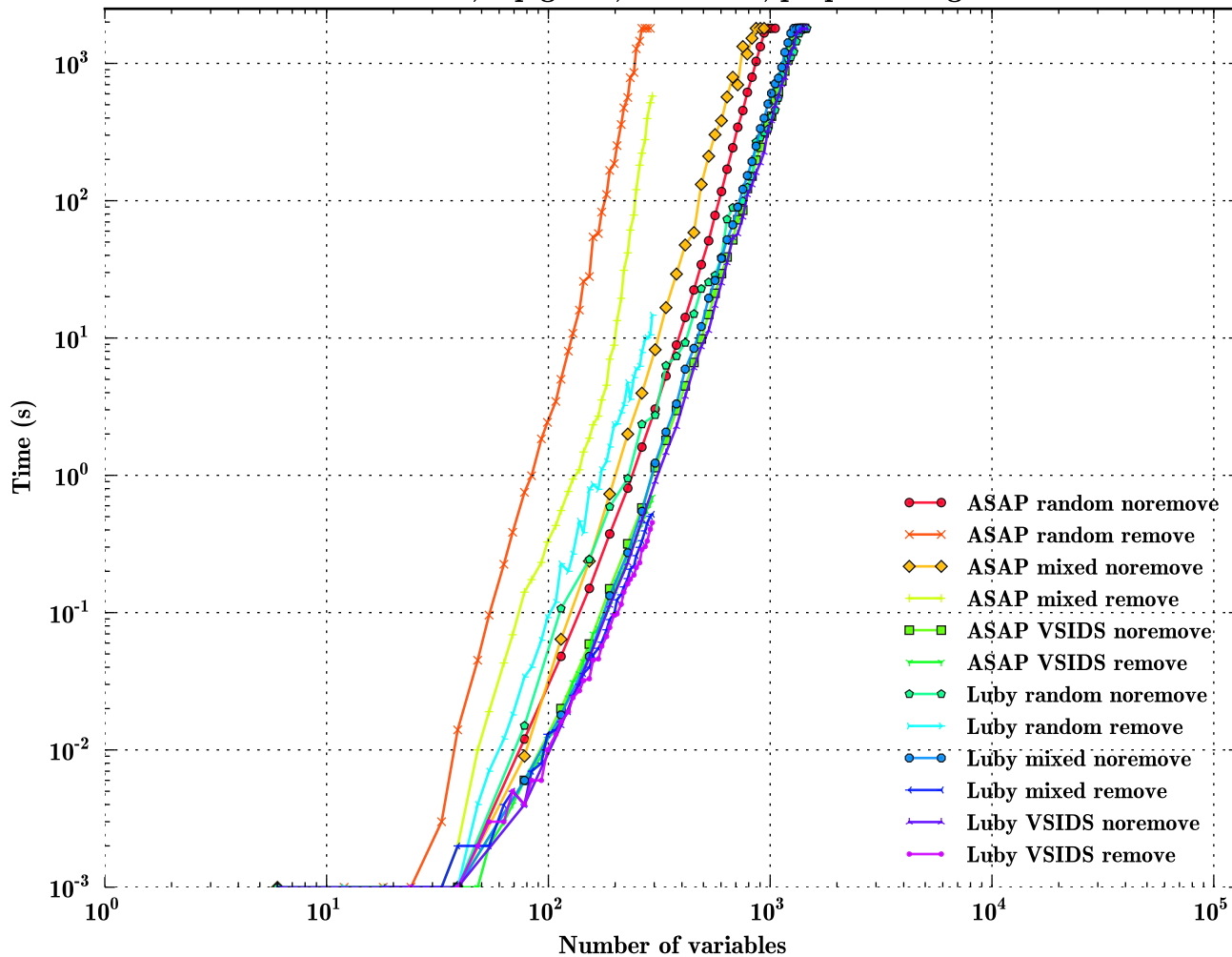
RPHP, 3 pigeons, no shuffle, no preprocessing



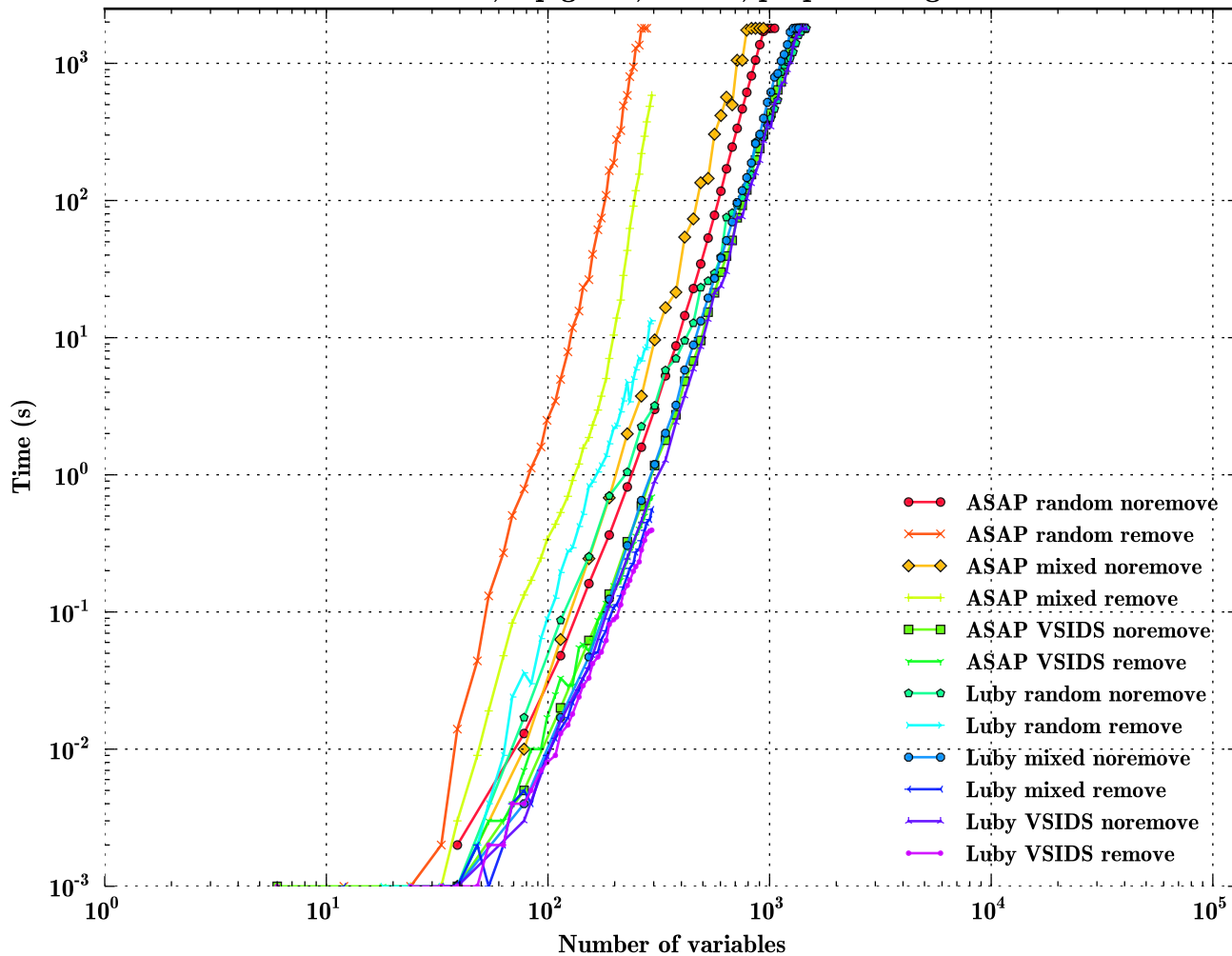
RPHP, 3 pigeons, shuffle, no preprocessing



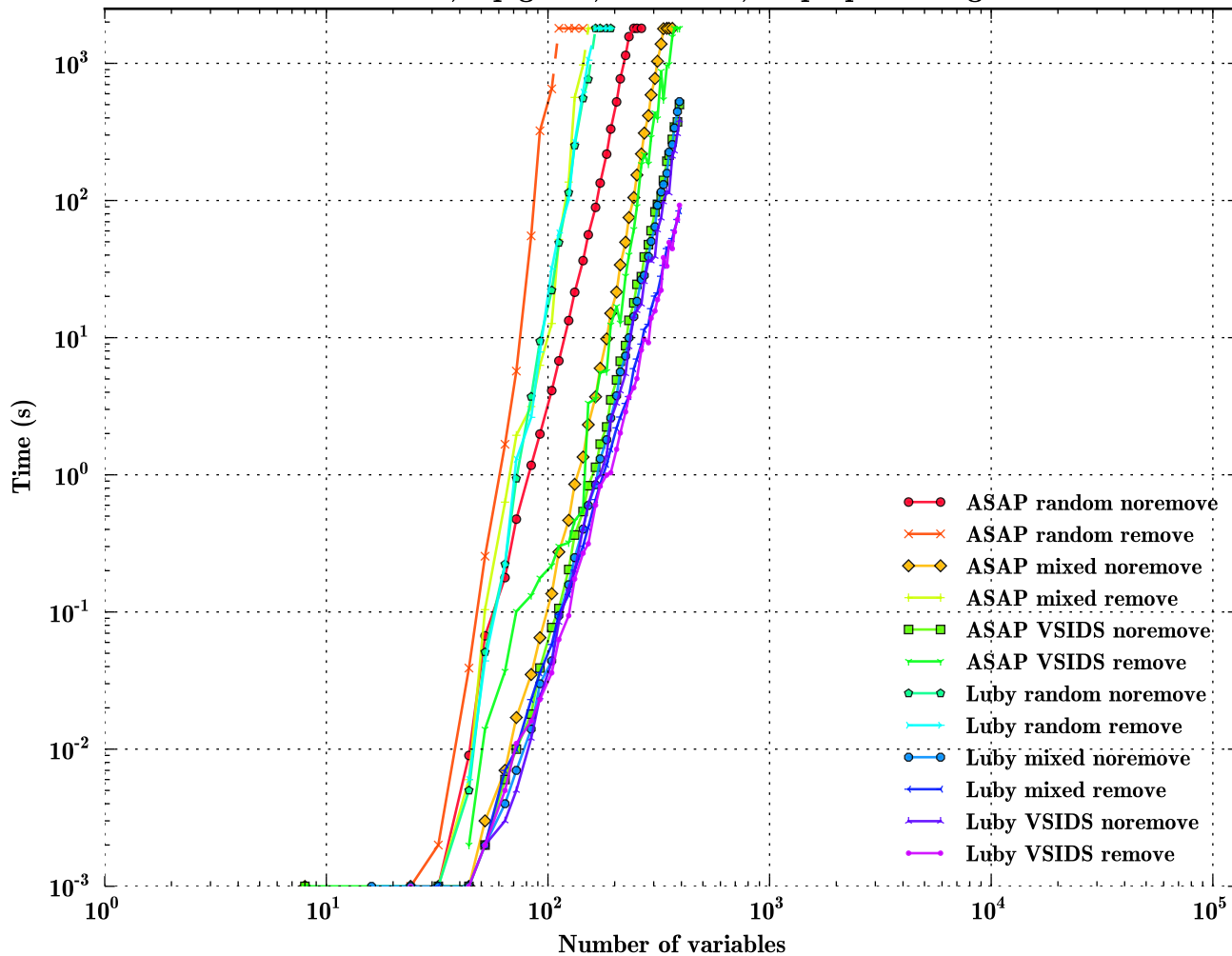
RPHP, 3 pigeons, no shuffle, preprocessing



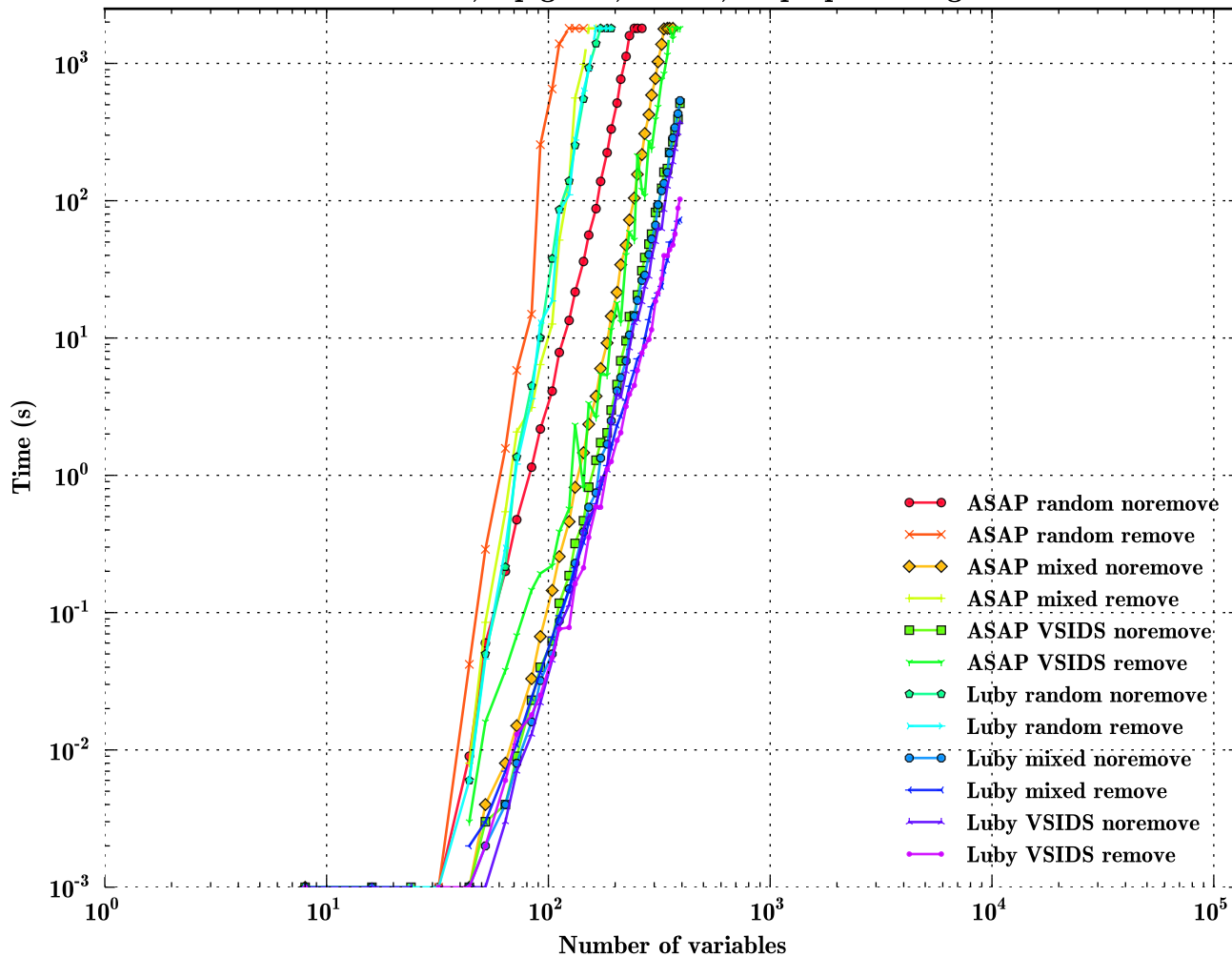
RPHP, 3 pigeons, shuffle, preprocessing



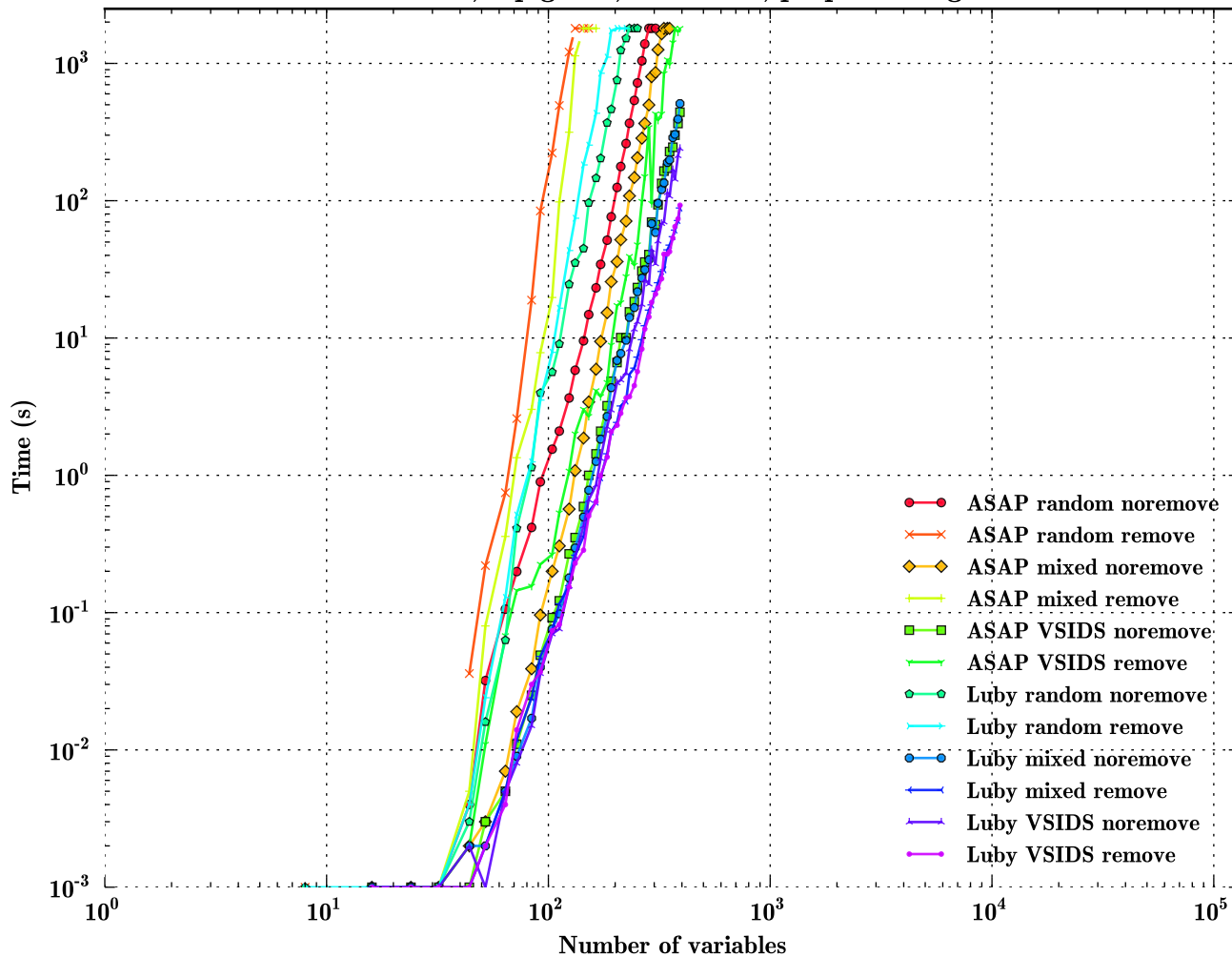
RPHP, 4 pigeons, no shuffle, no preprocessing



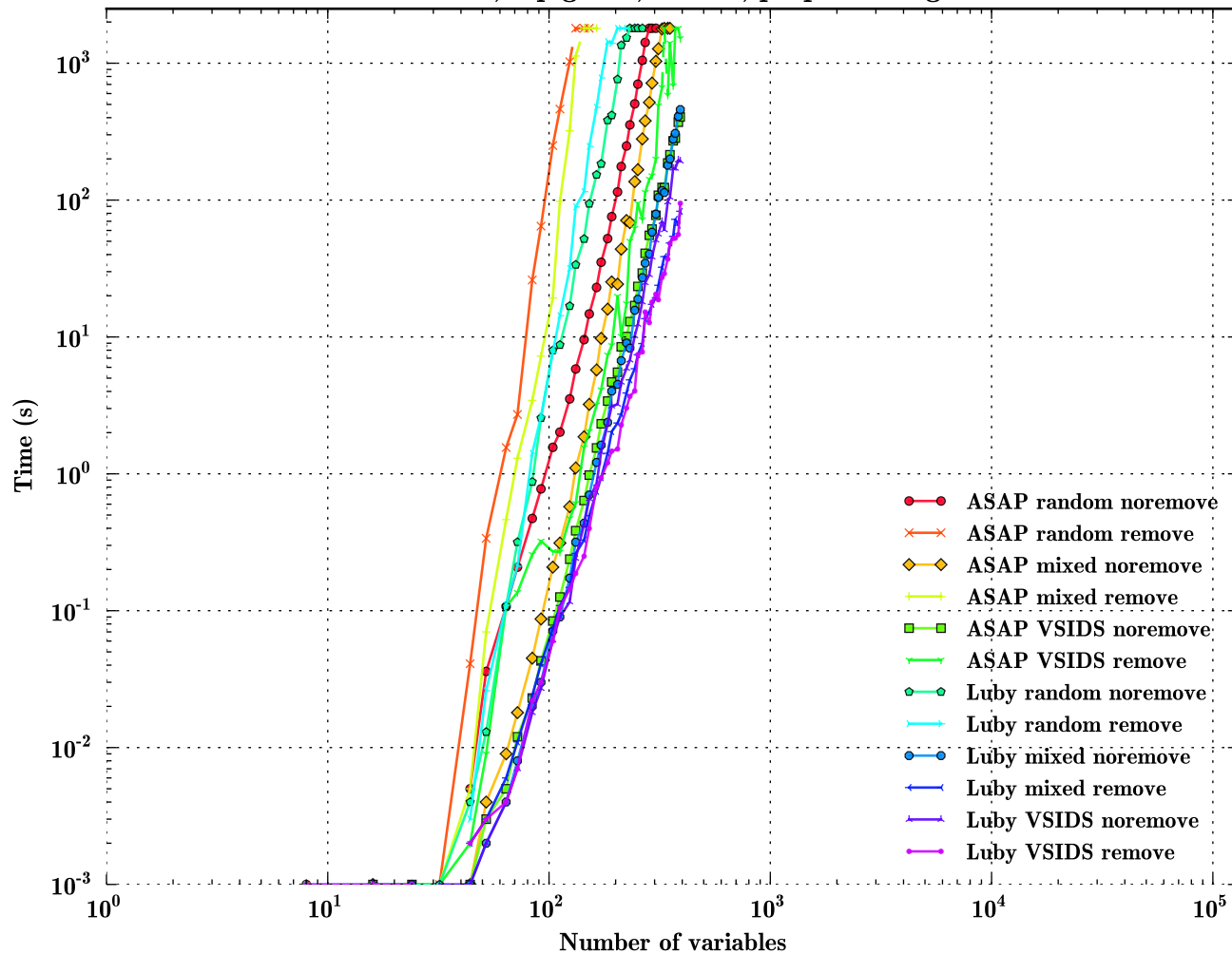
RPHP, 4 pigeons, shuffle, no preprocessing



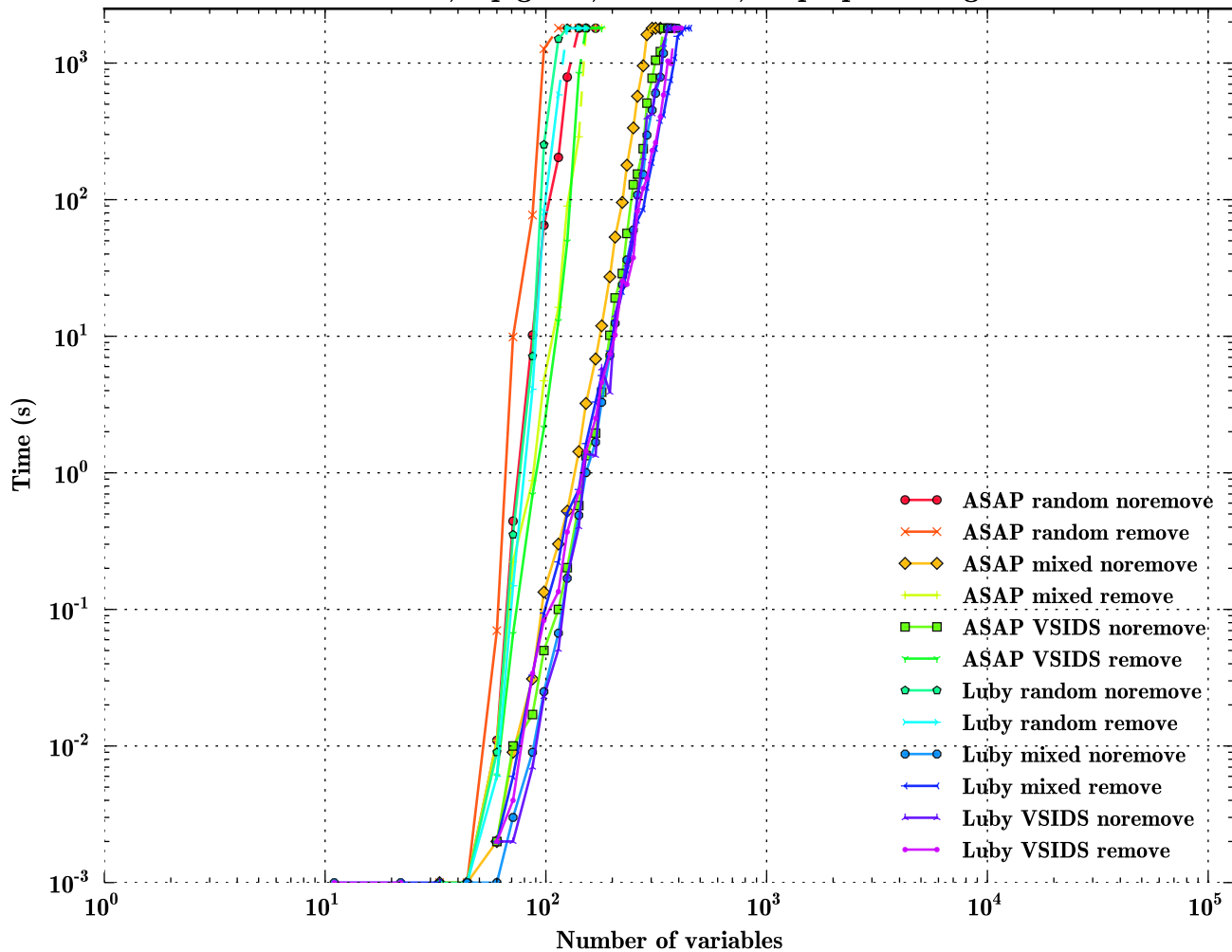
RPHP, 4 pigeons, no shuffle, preprocessing



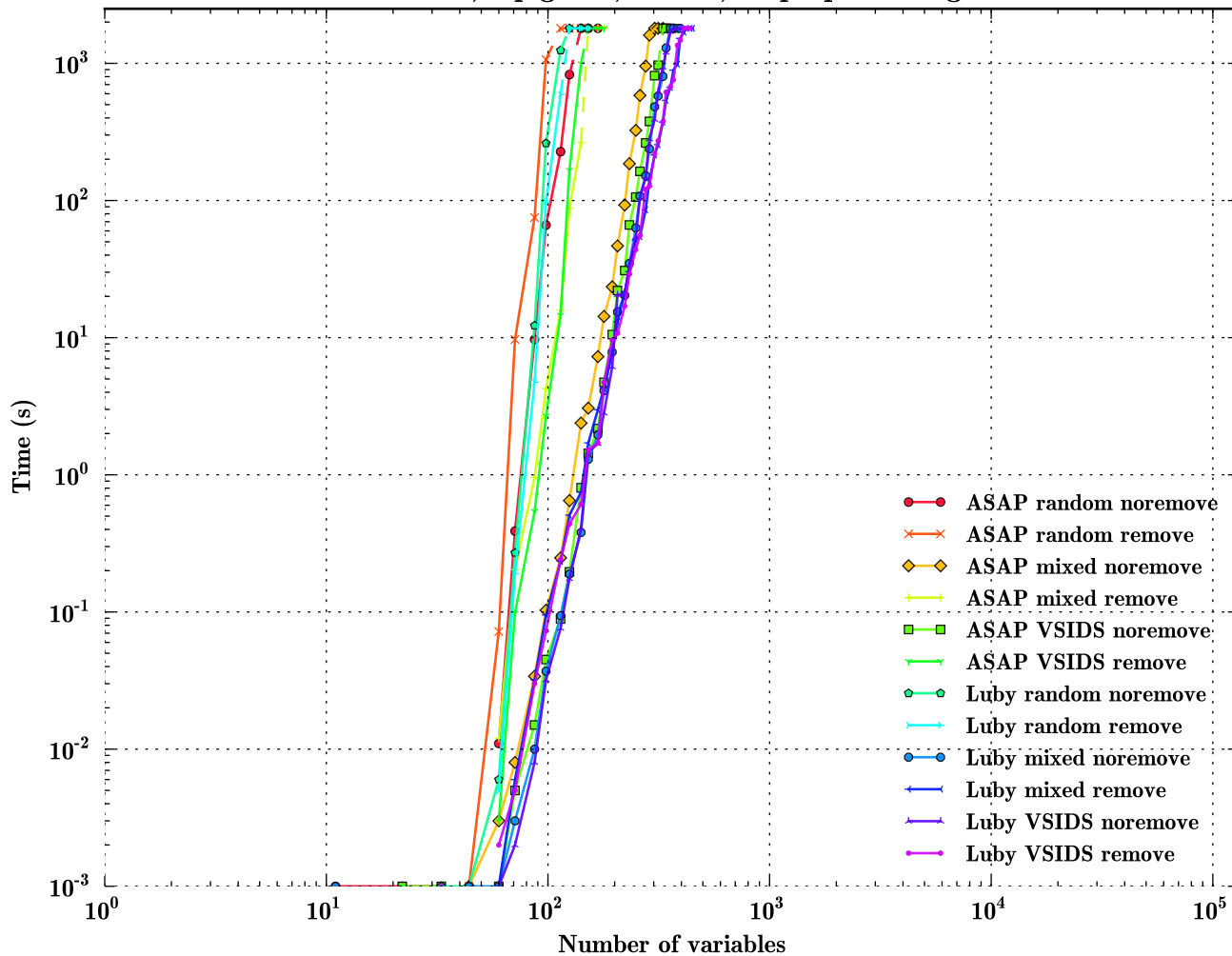
RPHP, 4 pigeons, shuffle, preprocessing



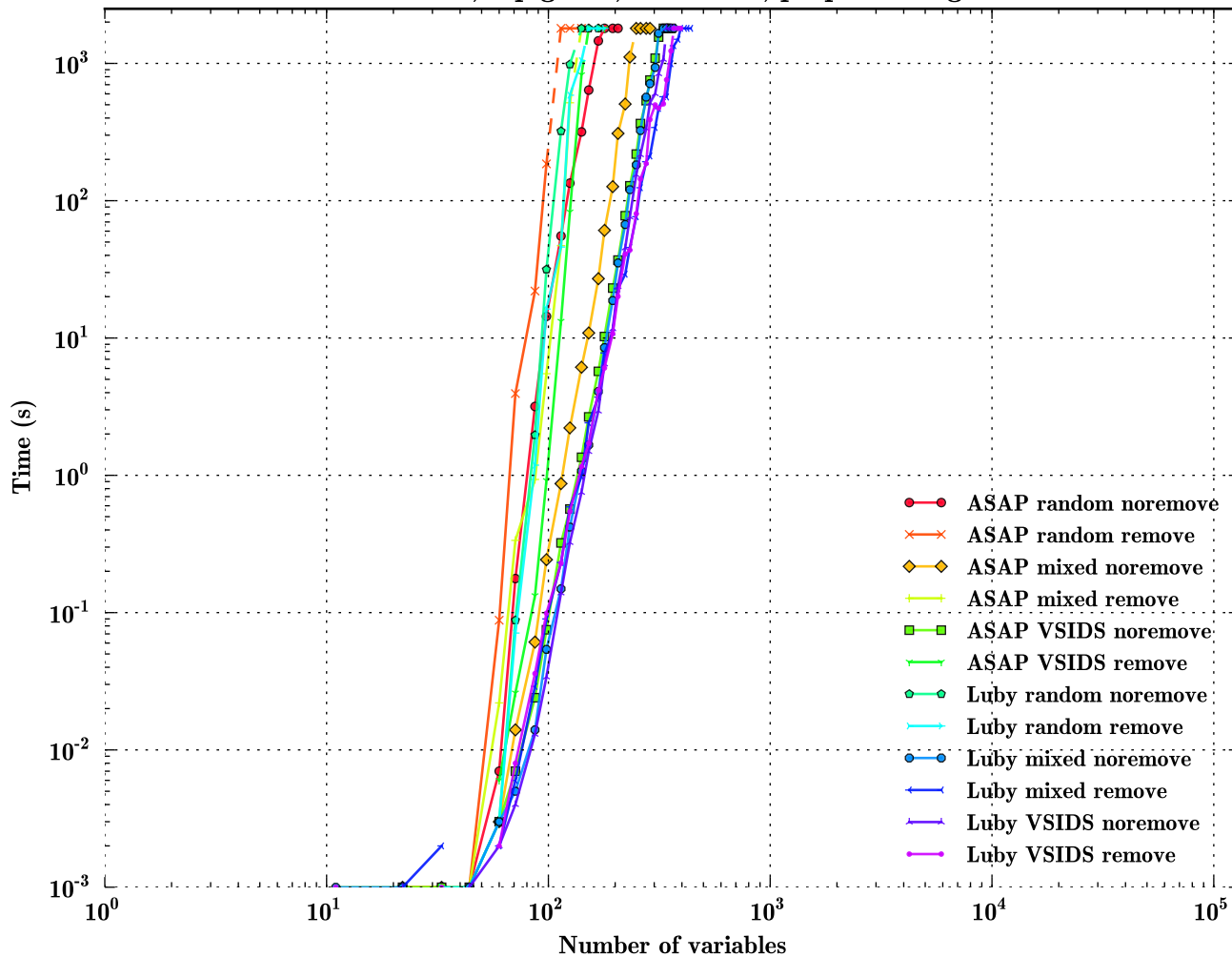
RPHP, 5 pigeons, no shuffle, no preprocessing



RPHP, 5 pigeons, shuffle, no preprocessing



RPHP, 5 pigeons, no shuffle, preprocessing



RPHP, 5 pigeons, shuffle, preprocessing

