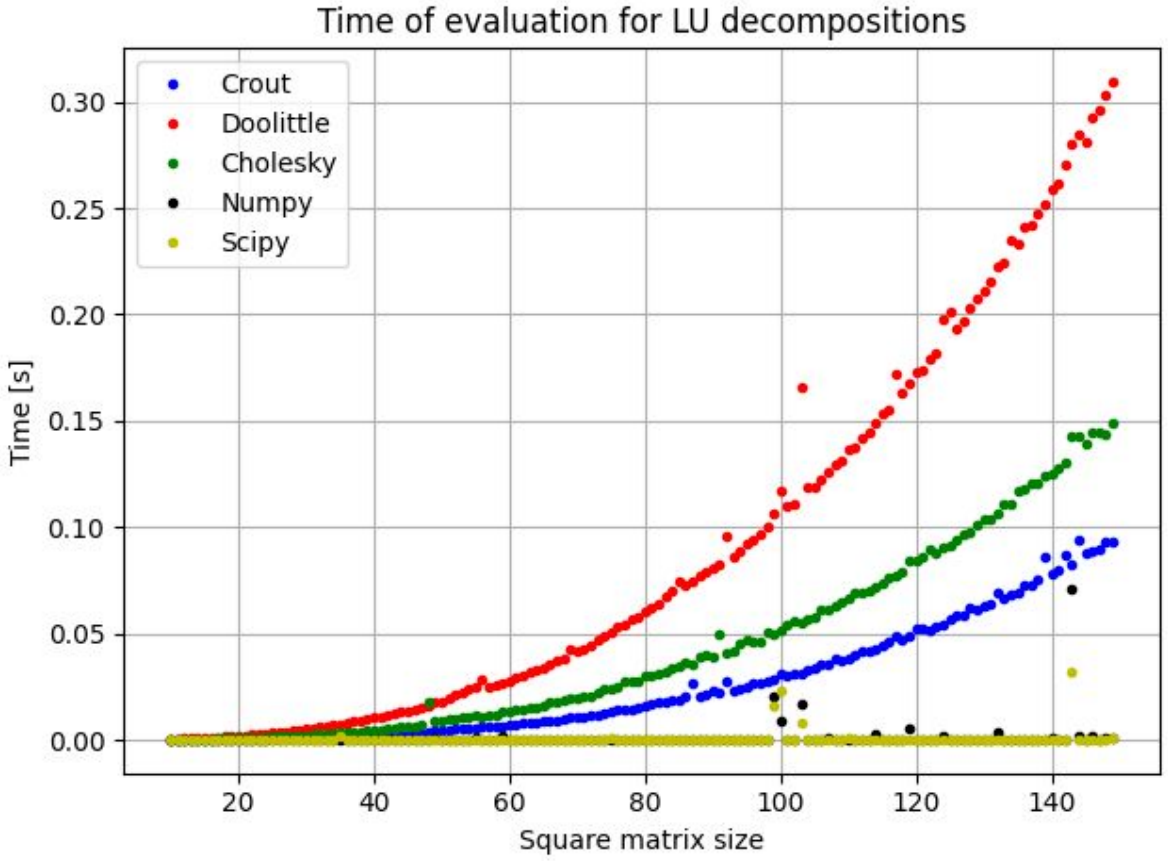

Pomiary czasów rozwiązywania liniowych układów równań:
SciPy linalg.solve + autorskie implementacje faktoryzacji LU
SciPy linalg.solve()
Numpy linalg.solve()

Matrix 10x10:
Crout: 0.00023865699768066406s
Doolittle: 0.0004892349243164062s
Cholesky: 0.00025272369384765625s
Numpy: 4.00543212890625e-05s
Scipy: 5.340576171875e-05s

Matrix 11x11:
Crout: 0.0001347064971923828s
Doolittle: 0.0005681514739990234s
Cholesky: 0.0002906322479248047s
Numpy: 2.47955322265625e-05s
Scipy: 2.6702880859375e-05s

Matrix 12x12:
Crout: 0.00016427040100097656s
Doolittle: 0.0007784366607666016s

Cholesky: 0.00036215782165527344s
Numpy: 3.075599670410156e-05s
Scipy: 4.458427429199219e-05s

Matrix 13x13:
Crout: 0.00019431114196777344s
Doolittle: 0.0008170604705810547s
Cholesky: 0.000396728515625s
Numpy: 2.5272369384765625e-05s
Scipy: 2.765655517578125e-05s

Matrix 14x14:
Crout: 0.00020265579223632812s
Doolittle: 0.0009641647338867188s
Cholesky: 0.0004563331604003906s
Numpy: 2.09808349609375e-05s
Scipy: 3.0994415283203125e-05s

Matrix 15x15:
Crout: 0.00023603439331054688s
Doolittle: 0.0010974407196044922s
Cholesky: 0.0005142688751220703s
Numpy: 2.3603439331054688e-05s
Scipy: 2.6941299438476562e-05s

Matrix 16x16:
Crout: 0.0002853870391845703s
Doolittle: 0.0012743473052978516s
Cholesky: 0.0005948543548583984s
Numpy: 2.09808349609375e-05s
Scipy: 3.123283386230469e-05s

Matrix 17x17:
Crout: 0.00030422210693359375s
Doolittle: 0.0014722347259521484s
Cholesky: 0.0006680488586425781s
Numpy: 2.09808349609375e-05s
Scipy: 3.814697265625e-05s

Matrix 18x18:
Crout: 0.0003399848937988281s
Doolittle: 0.0016791820526123047s
Cholesky: 0.0007638931274414062s
Numpy: 0.0001010894775390625s
Scipy: 5.841255187988281e-05s

Matrix 19x19:
Crout: 0.0003910064697265625s
Doolittle: 0.0019142627716064453s
Cholesky: 0.0009372234344482422s
Numpy: 0.0004775524139404297s
Scipy: 0.00154876708984375s

Matrix 20x20:
Crout: 0.0006079673767089844s
Doolittle: 0.002163410186767578s
Cholesky: 0.0010151863098144531s
Numpy: 0.0001475811004638672s
Scipy: 5.14984130859375e-05s

Matrix 21x21:
Crout: 0.0005137920379638672s
Doolittle: 0.002337932586669922s
Cholesky: 0.0010685920715332031s
Numpy: 3.409385681152344e-05s
Scipy: 3.838539123535156e-05s

Matrix 22x22:
Crout: 0.0005500316619873047s
Doolittle: 0.0026602745056152344s
Cholesky: 0.0012137889862060547s
Numpy: 0.0002853870391845703s
Scipy: 0.002078533172607422s

Matrix 23x23:
Crout: 0.0006442070007324219s
Doolittle: 0.0028874874114990234s
Cholesky: 0.0013141632080078125s
Numpy: 0.00011801719665527344s
Scipy: 4.76837158203125e-05s

Matrix 24x24:
Crout: 0.0006732940673828125s
Doolittle: 0.0032351016998291016s
Cholesky: 0.001451253890991211s
Numpy: 5.054473876953125e-05s
Scipy: 0.00013494491577148438s

Matrix 25x25:
Crout: 0.0007314682006835938s
Doolittle: 0.0035190582275390625s
Cholesky: 0.001676797866821289s

Numpy: 6.461143493652344e-05s
Scipy: 4.935264587402344e-05s

Matrix 26x26:
Crout: 0.0009012222290039062s
Doolittle: 0.003873109817504883s
Cholesky: 0.0017788410186767578s
Numpy: 6.341934204101562e-05s
Scipy: 0.00015783309936523438s

Matrix 27x27:
Crout: 0.0008990764617919922s
Doolittle: 0.004418134689331055s
Cholesky: 0.0019690990447998047s
Numpy: 0.0039033889770507812s
Scipy: 0.00010585784912109375s

Matrix 28x28:
Crout: 0.0009965896606445312s
Doolittle: 0.0045680999755859375s
Cholesky: 0.0020995140075683594s
Numpy: 0.00059366226196289062s
Scipy: 7.796287536621094e-05s

Matrix 29x29:
Crout: 0.0010416507720947266s
Doolittle: 0.005053043365478516s
Cholesky: 0.0023198127746582031s
Numpy: 0.03676319122314453s
Scipy: 0.00010371208190917969s

Matrix 30x30:
Crout: 0.0011649131774902344s
Doolittle: 0.00543212890625s
Cholesky: 0.0024783611297607422s
Numpy: 0.0060720443725585938s
Scipy: 0.0012419223785400391s

Matrix 31x31:
Crout: 0.0013444423675537109s
Doolittle: 0.0058908462524414062s
Cholesky: 0.0028698444366455078s
Numpy: 0.0093305110931396484s
Scipy: 0.016763925552368164s

Matrix 32x32:

Crout: 0.0014045238494873047s
Doolittle: 0.006491184234619141s
Cholesky: 0.0028367042541503906s
Numpy: 0.004078388214111328s
Scipy: 9.1552734375e-05s

Matrix 33x33:
Crout: 0.0018897056579589844s
Doolittle: 0.009703874588012695s
Cholesky: 0.00801992416381836s
Numpy: 0.045525550842285156s
Scipy: 0.0023887157440185547s

Matrix 34x34:
Crout: 0.0020101070404052734s
Doolittle: 0.014977693557739258s
Cholesky: 0.0039625167846679690s
Numpy: 0.007537364959716797s
Scipy: 9.512901306152344e-05s

Matrix 35x35:
Crout: 0.0016765594482421875s
Doolittle: 0.007630586624145508s
Cholesky: 0.0035049915313720703s
Numpy: 6.961822509765625e-05s
Scipy: 6.866455078125e-05s

Matrix 36x36:
Crout: 0.0018203258514404297s
Doolittle: 0.008133649826049805s
Cholesky: 0.0037283897399902344s
Numpy: 5.602836608886719e-05s
Scipy: 6.318092346191406e-05s

Matrix 37x37:
Crout: 0.0020112991333007812s
Doolittle: 0.008756160736083984s
Cholesky: 0.00398707389831543s
Numpy: 5.2928924560546875e-05s
Scipy: 5.7697296142578125e-05s

Matrix 38x38:
Crout: 0.002096891403198242s
Doolittle: 0.009346485137939453s
Cholesky: 0.004887819290161133s
Numpy: 5.8650970458984375e-05s

Scipy: 6.222724914550781e-05s

Matrix 39x39:
Crout: 0.002218008041381836s
Doolittle: 0.009937763214111328s
Cholesky: 0.004680156707763672s
Numpy: 5.9604644775390625e-05s
Scipy: 5.9604644775390625e-05s

Matrix 40x40:
Crout: 0.003088712692260742s
Doolittle: 0.01065373420715332s
Cholesky: 0.004951953887939453s
Numpy: 0.0017218589782714844s
Scipy: 0.00010776519775390625s

Matrix 41x41:
Crout: 0.0025076866149902344s
Doolittle: 0.017677783966064453s
Cholesky: 0.010828733444213867s
Numpy: 7.343292236328125e-05s
Scipy: 0.0037758350372314453s

Matrix 42x42:
Crout: 0.002875804901123047s
Doolittle: 0.01202082633972168s
Cholesky: 0.006470918655395508s
Numpy: 0.0008304119110107422s
Scipy: 8.058547973632812e-05s

Matrix 43x43:
Crout: 0.0033674240112304688s
Doolittle: 0.013072967529296875s
Cholesky: 0.008552074432373047s
Numpy: 0.0016481876373291016s
Scipy: 0.0001125335693359375s

Matrix 44x44:
Crout: 0.004667043685913086s
Doolittle: 0.014034032821655273s
Cholesky: 0.006487131118774414s
Numpy: 6.842613220214844e-05s
Scipy: 7.033348083496094e-05s

Matrix 45x45:
Crout: 0.003260374069213867s

Doolittle: 0.014534711837768555s
Cholesky: 0.006575584411621094s
Numpy: 7.510185241699219e-05s
Scipy: 6.699562072753906e-05s

Matrix 46x46:
Crout: 0.0034782886505126953s
Doolittle: 0.014750003814697266s
Cholesky: 0.006780385971069336s
Numpy: 6.604194641113281e-05s
Scipy: 7.510185241699219e-05s

Matrix 47x47:
Crout: 0.003601551055908203s
Doolittle: 0.015523910522460938s
Cholesky: 0.007122993469238281s
Numpy: 7.200241088867188e-05s
Scipy: 7.295608520507812e-05s

Matrix 48x48:
Crout: 0.0064165592193603516s
Doolittle: 0.01666402816772461s
Cholesky: 0.008485555648803711s
Numpy: 8.106231689453125e-05s
Scipy: 7.867813110351562e-05s

Matrix 49x49:
Crout: 0.004036664962768555s
Doolittle: 0.017337799072265625s
Cholesky: 0.00799417495727539s
Numpy: 7.200241088867188e-05s
Scipy: 0.003656148910522461s

Matrix 50x50:
Crout: 0.004292011260986328s
Doolittle: 0.01848316192626953s
Cholesky: 0.009663581848144531s
Numpy: 0.00010037422180175781s
Scipy: 0.00010752677917480469s

Matrix 51x51:
Crout: 0.004510164260864258s
Doolittle: 0.01902008056640625s
Cholesky: 0.010489702224731445s
Numpy: 9.822845458984375e-05s
Scipy: 0.00010347366333007812s

Matrix 52x52:
  Crout: 0.004671812057495117s
  Doolittle: 0.020123958587646484s
  Cholesky: 0.009320974349975586s
  Numpy: 0.0009028911590576172s
  Scipy: 0.00010037422180175781s

Matrix 53x53:
  Crout: 0.005408287048339844s
  Doolittle: 0.020948410034179688s
  Cholesky: 0.009875297546386719s
  Numpy: 7.82012939453125e-05s
  Scipy: 8.678436279296875e-05s

Matrix 54x54:
  Crout: 0.005395412445068359s
  Doolittle: 0.02206707000732422s
  Cholesky: 0.010349035263061523s
  Numpy: 8.177757263183594e-05s
  Scipy: 9.369850158691406e-05s

Matrix 55x55:
  Crout: 0.005558967590332031s
  Doolittle: 0.02314305305480957s
  Cholesky: 0.01074361801147461s
  Numpy: 8.916854858398438e-05s
  Scipy: 0.00010323524475097656s

Matrix 56x56:
  Crout: 0.0058231353759765625s
  Doolittle: 0.02561354637145996s
  Cholesky: 0.01118016242980957s
  Numpy: 8.296966552734375e-05s
  Scipy: 0.00019931793212890625s

Matrix 57x57:
  Crout: 0.006227016448974609s
  Doolittle: 0.025641918182373047s
  Cholesky: 0.011725664138793945s
  Numpy: 9.226799011230469e-05s
  Scipy: 0.00010061264038085938s

Matrix 58x58:
  Crout: 0.006420612335205078s
  Doolittle: 0.026339292526245117s

Cholesky: 0.0122475624084472 66s
Numpy: 9.560585021972656e-05s
Scipy: 9.489059448242188e-05s

Matrix 59x59:
Crout: 0.0068738460540771484s
Doolittle: 0.027550220489501953s
Cholesky: 0.014176130294799805s
Numpy: 0.0005245208740234375s
Scipy: 0.0003867149353027344s

Matrix 60x60:
Crout: 0.0071563720703125s
Doolittle: 0.03168988227844238s
Cholesky: 0.014312982559204102s
Numpy: 0.0001690387725830078s
Scipy: 0.00012111663818359375s

Matrix 61x61:
Crout: 0.013055562973022461s
Doolittle: 0.03459024429321289s
Cholesky: 0.014789104461669922s
Numpy: 0.012128353118896484s
Scipy: 0.0033235549926757812s

Matrix 62x62:
Crout: 0.007683515548706055s
Doolittle: 0.0325775146484375s
Cholesky: 0.014764785766601562s
Numpy: 0.013559579849243164s
Scipy: 0.010651826858520508s

Matrix 63x63:
Crout: 0.008646249771118164s
Doolittle: 0.03254580497741699s
Cholesky: 0.015855789184570312s
Numpy: 0.025899648666381836s
Scipy: 0.00016927719116210938s

Matrix 64x64:
Crout: 0.008488178253173828s
Doolittle: 0.0345456600189209s
Cholesky: 0.01571345329284668s
Numpy: 9.751319885253906e-05s
Scipy: 0.0001163482666015625s

Matrix 65x65:
  Crout: 0.008712053298950195s
  Doolittle: 0.03543281555175781s
  Cholesky: 0.016960859298706055s
  Numpy: 0.002590656280517578s
  Scipy: 0.00014090538024902344s

Matrix 66x66:
  Crout: 0.00911092758178711s
  Doolittle: 0.036635637283325195s
  Cholesky: 0.017735719680786133s
  Numpy: 0.00012302398681640625s
  Scipy: 0.00012421607971191406s

Matrix 67x67:
  Crout: 0.009404897689819336s
  Doolittle: 0.037876129150390625s
  Cholesky: 0.018825769424438477s
  Numpy: 0.00011444091796875s
  Scipy: 0.00013422966600341797s

Matrix 68x68:
  Crout: 0.010870933532714844s
  Doolittle: 0.03915667533874512s
  Cholesky: 0.01862812042236328s
  Numpy: 0.00010251998901367188s
  Scipy: 0.00011658668518066406s

Matrix 69x69:
  Crout: 0.011142730712890625s
  Doolittle: 0.04070138931274414s
  Cholesky: 0.019077062606811523s
  Numpy: 9.870529174804688e-05s
  Scipy: 0.00011277198791503906s

Matrix 70x70:
  Crout: 0.010695934295654297s
  Doolittle: 0.04222559928894043s
  Cholesky: 0.020548582077026367s
  Numpy: 0.00020146369934082031s
  Scipy: 0.0016818046569824219s

Matrix 71x71:
  Crout: 0.01140904426574707s
  Doolittle: 0.043708086013793945s
  Cholesky: 0.020946502685546875s

Numpy: 0.00012493133544921875s
Scipy: 0.00013184547424316406s

Matrix 72x72:
Crout: 0.011914491653442383s
Doolittle: 0.04579758644104004s
Cholesky: 0.0212705135345459s
Numpy: 0.00038933753967285156s
Scipy: 0.0001239776611328125s

Matrix 73x73:
Crout: 0.012052774429321289s
Doolittle: 0.0489346981048584s
Cholesky: 0.023216724395751953s
Numpy: 0.00014805793762207031s
Scipy: 0.00013875961303710938s

Matrix 74x74:
Crout: 0.012912988662719727s
Doolittle: 0.04979896545410156s
Cholesky: 0.030687332153320312s
Numpy: 0.00011777877807617188s
Scipy: 0.00014019012451171875s

Matrix 75x75:
Crout: 0.018447160720825195s
Doolittle: 0.05275297164916992s
Cholesky: 0.024660348892211914s
Numpy: 0.004711151123046875s
Scipy: 0.00018978118896484375s

Matrix 76x76:
Crout: 0.015099048614501953s
Doolittle: 0.05913829803466797s
Cholesky: 0.05258345603942871s
Numpy: 0.028975248336791992s
Scipy: 0.0264894962310791s

Matrix 77x77:
Crout: 0.028928756713867188s
Doolittle: 0.07204365730285645s
Cholesky: 0.029677629470825195s
Numpy: 0.00011801719665527344s
Scipy: 0.0003056526184082031s

Matrix 78x78:

Crout: 0.0172274112701416s
Doolittle: 0.06280660629272461s
Cholesky: 0.030930042266845703s
Numpy: 0.0001087188720703125s
Scipy: 0.00014019012451171875s

Matrix 79x79:
Crout: 0.01766228675842285s
Doolittle: 0.06446075439453125s
Cholesky: 0.02993178367614746s
Numpy: 0.00011754035949707031s
Scipy: 0.0001697540283203125s

Matrix 80x80:
Crout: 0.017184734344482422s
Doolittle: 0.06509256362915039s
Cholesky: 0.03165602684020996s
Numpy: 9.417533874511719e-05s
Scipy: 0.00013756752014160156s

Matrix 81x81:
Crout: 0.017540931701660156s
Doolittle: 0.06912469863891602s
Cholesky: 0.033795118331909180s
Numpy: 9.799003601074219e-05s
Scipy: 0.0001304149627685547s

Matrix 82x82:
Crout: 0.018514633178710938s
Doolittle: 0.07324504852294922s
Cholesky: 0.033038854598999020s
Numpy: 0.00011515617370605469s
Scipy: 0.00012755393981933594s

Matrix 83x83:
Crout: 0.018358469009399414s
Doolittle: 0.06889104843139648s
Cholesky: 0.0333867073059082s
Numpy: 0.00012350082397460938s
Scipy: 0.00017595291137695312s

Matrix 84x84:
Crout: 0.018654584884643555s
Doolittle: 0.07091522216796875s
Cholesky: 0.033657073974609375s
Numpy: 0.00179529190063476560s

Scipy: 0.00018739700317382812s

Matrix 85x85:
Crout: 0.020343780517578125s
Doolittle: 0.07546710968017578s
Cholesky: 0.0356745719909668s
Numpy: 0.0015320777893066406s
Scipy: 0.00019884109497070312s

Matrix 86x86:
Crout: 0.01970505714416504s
Doolittle: 0.07656407356262207s
Cholesky: 0.039890289306640625s
Numpy: 0.00010967254638671875s
Scipy: 0.0001666545867919922s

Matrix 87x87:
Crout: 0.028719186782836914s
Doolittle: 0.08407902717590332s
Cholesky: 0.03708672523498535s
Numpy: 0.00012230873107910156s
Scipy: 0.00015044212341308594s

Matrix 88x88:
Crout: 0.02106189727783203s
Doolittle: 0.07787847518920898s
Cholesky: 0.038049936294555664s
Numpy: 0.00028014183044433594s
Scipy: 0.00013828277587890625s

Matrix 89x89:
Crout: 0.023802518844604492s
Doolittle: 0.08325791358947754s
Cholesky: 0.03731489181518555s
Numpy: 0.00011110305786132812s
Scipy: 0.0001385211944580078s

Matrix 90x90:
Crout: 0.021813631057739258s
Doolittle: 0.08031606674194336s
Cholesky: 0.037924766540527344s
Numpy: 0.00014019012451171875s
Scipy: 0.00014209747314453125s

Matrix 91x91:
Crout: 0.022576570510864258s

Doolittle: 0.08176493644714355s
Cholesky: 0.03987312316894531s
Numpy: 0.0002040863037109375s
Scipy: 0.0001461505889892578s

Matrix 92x92:
Crout: 0.023863554000854492s
Doolittle: 0.08595728874206543s
Cholesky: 0.041034698486328125s
Numpy: 0.00013113021850585938s
Scipy: 0.0011174678802490234s

Matrix 93x93:
Crout: 0.024237871170043945s
Doolittle: 0.08743476867675781s
Cholesky: 0.042755842208862305s
Numpy: 0.0016868114471435547s
Scipy: 0.0001952648162841797s

Matrix 94x94:
Crout: 0.024234533309936523s
Doolittle: 0.09022784233093262s
Cholesky: 0.04259920120239258s
Numpy: 0.00011229515075683594s
Scipy: 0.00015544891357421875s

Matrix 95x95:
Crout: 0.02594733238220215s
Doolittle: 0.09226059913635254s
Cholesky: 0.044191598892211914s
Numpy: 0.00012087821960449219s
Scipy: 0.0001616477966308594s

Matrix 96x96:
Crout: 0.02606678009033203s
Doolittle: 0.09505081176757812s
Cholesky: 0.045141458511352539s
Numpy: 0.00012183189392089844s
Scipy: 0.00040459632873535156s

Matrix 97x97:
Crout: 0.02798175811767578s
Doolittle: 0.09693455696105957s
Cholesky: 0.04597330093383789s
Numpy: 0.00035309791564941406s
Scipy: 0.00017714500427246094s

Matrix 98x98:
  Crout: 0.027606725692749023s
  Doolittle: 0.10057497024536133s
  Cholesky: 0.048366546630859375s
  Numpy: 0.00020933151245117188s
  Scipy: 0.00017142295837402344s

Matrix 99x99:
  Crout: 0.02855849266052246s
  Doolittle: 0.1028909683227539s
  Cholesky: 0.04857993125915527s
  Numpy: 0.00013375282287597656s
  Scipy: 0.0001823902130126953s

Matrix 100x100:
  Crout: 0.029915332794189453s
  Doolittle: 0.10585808753967285s
  Cholesky: 0.050363779067993164s
  Numpy: 0.0001289844512939453s
  Scipy: 0.00017380714416503906s

Matrix 101x101:
  Crout: 0.0301363468170166s
  Doolittle: 0.10846614837646484s
  Cholesky: 0.05187273025512695s
  Numpy: 0.0001380443572998047s
  Scipy: 0.0001671314239501953s

Matrix 102x102:
  Crout: 0.03142285346984863s
  Doolittle: 0.11157822608947754s
  Cholesky: 0.05386066436767578s
  Numpy: 0.00013136863708496094s
  Scipy: 0.00017595291137695312s

Matrix 103x103:
  Crout: 0.03217673301696777s
  Doolittle: 0.11833500862121582s
  Cholesky: 0.060254573822021484s
  Numpy: 0.0001633167266845703s
  Scipy: 0.0002028942108154297s

Matrix 104x104:
  Crout: 0.03308892250061035s
  Doolittle: 0.11723756790161133s

Cholesky: 0.05893373489379883s
Numpy: 0.00016903877258300078s
Scipy: 0.00020074844360351562s

Matrix 105x105:
Crout: 0.03369760513305664s
Doolittle: 0.12125015258789062s
Cholesky: 0.0572509765625s
Numpy: 0.00025415420532226563s
Scipy: 0.00018525123596191406s

Matrix 106x106:
Crout: 0.03519487380981445s
Doolittle: 0.12545442581176758s
Cholesky: 0.05959272384643555s
Numpy: 0.000148773193359375s
Scipy: 0.00018644332885742188s

Matrix 107x107:
Crout: 0.03579974174499512s
Doolittle: 0.12600421905517578s
Cholesky: 0.059656381607055664s
Numpy: 0.00022840499877929688s
Scipy: 0.00020837783813476562s

Matrix 108x108:
Crout: 0.03661990165710449s
Doolittle: 0.1304175853729248s
Cholesky: 0.06152963638305664s
Numpy: 0.00014996528625488281s
Scipy: 0.00018906593322753906s

Matrix 109x109:
Crout: 0.03766655921936035s
Doolittle: 0.13176798820495605s
Cholesky: 0.06371378898620605s
Numpy: 0.00015664100646972656s
Scipy: 0.00020813941955566406s

Matrix 110x110:
Crout: 0.03902626037597656s
Doolittle: 0.13683080673217773s
Cholesky: 0.09084701538085938s
Numpy: 0.00018548965454101562s
Scipy: 0.000286102294921875s

Matrix 111x111:
  Crout: 0.04897308349609375s
  Doolittle: 0.15034699440002441s
  Cholesky: 0.06786012649536133s
  Numpy: 0.013317346572875977s
  Scipy: 0.0002460479736328125s

Matrix 112x112:
  Crout: 0.0484011173248291s
  Doolittle: 0.14492082595825195s
  Cholesky: 0.06925320625305176s
  Numpy: 0.0007081031799316406s
  Scipy: 0.00020599365234375s

Matrix 113x113:
  Crout: 0.051514625549316406s
  Doolittle: 0.14872312545776367s
  Cholesky: 0.07009100914001465s
  Numpy: 0.0003681182861328125s
  Scipy: 0.0002181529998779297s

Matrix 114x114:
  Crout: 0.04298973083496094s
  Doolittle: 0.1555156707763672s
  Cholesky: 0.07283163070678711s
  Numpy: 0.002681732177734375s
  Scipy: 0.0002627372741699219s

Matrix 115x115:
  Crout: 0.045240163803100586s
  Doolittle: 0.15445828437805176s
  Cholesky: 0.07317161560058594s
  Numpy: 0.00017309188842773438s
  Scipy: 0.0002482872009277344s

Matrix 116x116:
  Crout: 0.04512596130371094s
  Doolittle: 0.1600785255432129s
  Cholesky: 0.07470202445983887s
  Numpy: 0.00020265579223632812s
  Scipy: 0.0001881122589111328s

Matrix 117x117:
  Crout: 0.046483755111694336s
  Doolittle: 0.1603848934173584s
  Cholesky: 0.07646679878234863s

Numpy: 0.00072288513183593755
Scipy: 0.0002498626708984375s

Matrix 118x118:
Crout: 0.04712867736816406s
Doolittle: 0.16417217254638672s
Cholesky: 0.07955074310302734s
Numpy: 0.00017285346984863285
Scipy: 0.00023794174194335938s

Matrix 119x119:
Crout: 0.04926872253417969s
Doolittle: 0.16797399520874023s
Cholesky: 0.08188867568969727s
Numpy: 0.0136096477508544925
Scipy: 0.02786850929260254s

Matrix 120x120:
Crout: 0.0506894588470459s
Doolittle: 0.1750483512878418s
Cholesky: 0.0831136703491211s
Numpy: 0.00017118453979492188s
Scipy: 0.00023889541625976562s

Matrix 121x121:
Crout: 0.052117347717285156s
Doolittle: 0.17785000801086426s
Cholesky: 0.0835416316986084s
Numpy: 0.00017523765563964844s
Scipy: 0.00022864341735839844s

Matrix 122x122:
Crout: 0.05256795883178711s
Doolittle: 0.17995047569274902s
Cholesky: 0.08574390411376953s
Numpy: 0.00016880035400390625s
Scipy: 0.00022792816162109375s

Matrix 123x123:
Crout: 0.05614733695983887s
Doolittle: 0.18619585037231445s
Cholesky: 0.08799886703491211s
Numpy: 0.00019145011901855475
Scipy: 0.00023961067199707035

Matrix 124x124:

Crout: 0.0547175407409668s
Doolittle: 0.18834781646728516s
Cholesky: 0.08948516845703125s
Numpy: 0.00017118453979492188s
Scipy: 0.0002956390380859375s

Matrix 125x125:
Crout: 0.05683565139770508s
Doolittle: 0.19244694709777832s
Cholesky: 0.09321260452270508s
Numpy: 0.00017690658569335938s
Scipy: 0.0022172927856445312s

Matrix 126x126:
Crout: 0.05856442451477051s
Doolittle: 0.19584083557128906s
Cholesky: 0.09434032440185547s
Numpy: 0.0039710998535156 25s
Scipy: 0.0002808570861816406s

Matrix 127x127:
Crout: 0.05888247489929199s
Doolittle: 0.20727181434631348s
Cholesky: 0.0961768627166748s
Numpy: 0.00026035308837890625s
Scipy: 0.00024890899658203125s

Matrix 128x128:
Crout: 0.059610605239868164s
Doolittle: 0.20664119720458984s
Cholesky: 0.0976402759552002s
Numpy: 0.00019955635070800 78s
Scipy: 0.0002777576446533203s

Matrix 129x129:
Crout: 0.07086610794067383s
Doolittle: 0.25054430961608887s
Cholesky: 0.10948991775512695s
Numpy: 0.04240274429321289s
Scipy: 0.02169942855834961s

Matrix 130x130:
Crout: 0.06413602828979492s
Doolittle: 0.22467613220214844s
Cholesky: 0.1669297218322754s
Numpy: 0.05029726028442383s

Scipy: 0.007038116455078125s

Matrix 131x131:
Crout: 0.09259581565856934s
Doolittle: 0.25375843048095703s
Cholesky: 0.1335759162902832s
Numpy: 0.0019860267639160156s
Scipy: 0.0003254413604736328s

Matrix 132x132:
Crout: 0.11232924461364746s
Doolittle: 0.25000452995300293s
Cholesky: 0.11551904678344727s
Numpy: 0.04024815559387207s
Scipy: 0.028649568557739258s

Matrix 133x133:
Crout: 0.10486102104187012s
Doolittle: 0.24149775505065918s
Cholesky: 0.11229634284973145s
Numpy: 0.007834196090698242s
Scipy: 0.00031256675720214844s

Matrix 134x134:
Crout: 0.07729196548461914s
Doolittle: 0.24972891807556152s
Cholesky: 0.11660623550415039s
Numpy: 0.012043476104736328s
Scipy: 0.025885581970214844s

Matrix 135x135:
Crout: 0.07779502868652344s
Doolittle: 0.2715950012207031s
Cholesky: 0.1179649829864502s
Numpy: 0.03374075889587402s
Scipy: 0.0285947322845459s

Matrix 136x136:
Crout: 0.0971221923828125s
Doolittle: 0.27231693267822266s
Cholesky: 0.12344574928283691s
Numpy: 0.013519048690795898s
Scipy: 0.012131690979003906s

Matrix 137x137:
Crout: 0.0882420539855957s

Doolittle: 0.2692286968231201s
Cholesky: 0.1185150146484375s
Numpy: 0.0011532306671142578s
Scipy: 0.00028061866760253906s

Matrix 138x138:
Crout: 0.0745551586151123s
Doolittle: 0.25528526306152344s
Cholesky: 0.11942005157470703s
Numpy: 0.00020384788513183594s
Scipy: 0.0002644062042236328s

Matrix 139x139:
Crout: 0.07709074020385742s
Doolittle: 0.2888219356536865s
Cholesky: 0.13431072235107422s
Numpy: 0.033870697021484375s
Scipy: 0.05571794509887695s

Matrix 140x140:
Crout: 0.10461044311523438s
Doolittle: 0.2814784049987793s
Cholesky: 0.15042448043823242s
Numpy: 0.0017220973968505586s
Scipy: 0.0003337860107421875s

Matrix 141x141:
Crout: 0.09908938407897949s
Doolittle: 0.28596973419189453s
Cholesky: 0.14250612258911133s
Numpy: 0.06771254539489746s
Scipy: 0.03406524658203125s

Matrix 142x142:
Crout: 0.13915801048278809s
Doolittle: 0.3106496334075928s
Cholesky: 0.13474345207214355s
Numpy: 0.0002288818359375s
Scipy: 0.0003197193145751953s

Matrix 143x143:
Crout: 0.08974194526672363s
Doolittle: 0.3380587100982666s
Cholesky: 0.17402338981628418s
Numpy: 0.08034920692443848s
Scipy: 0.06162309646606445s

Matrix 144x144:
  Crout: 0.14836430549621582s
  Doolittle: 0.38173556327819824s
  Cholesky: 0.19195961952209473s
  Numpy: 0.032103300094604492s
  Scipy: 0.029254674911499023s

Matrix 145x145:
  Crout: 0.09018921852111816s
  Doolittle: 0.3422105312347412s
  Cholesky: 0.16306614875793457s
  Numpy: 0.007151603698730469s
  Scipy: 0.00037026405334472656s

Matrix 146x146:
  Crout: 0.11084938049316406s
  Doolittle: 0.32888340950012207s
  Cholesky: 0.15423822402954102s
  Numpy: 0.023685216903686523s
  Scipy: 0.01860213279724121s

Matrix 147x147:
  Crout: 0.09619402885437012s
  Doolittle: 0.3127329349517822s
  Cholesky: 0.1479799747467041s
  Numpy: 0.0024557113647460938s
  Scipy: 0.00044465065002441406s

Matrix 148x148:
  Crout: 0.10365939140319824s
  Doolittle: 0.32306337356567383s
  Cholesky: 0.14991092681884766s
  Numpy: 0.019786834716796875s
  Scipy: 0.045014142990112305s

Matrix 149x149:
  Crout: 0.13509392738342285s
  Doolittle: 0.3427915573120117s
  Cholesky: 0.15557169914245605s
  Numpy: 0.04221367835998535s
  Scipy: 0.03182244300842285s