PSCAN2 vs PSCAN

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|  | PSCAN2 | PSCAN |
| Maximum circuit size | Limited only by available memory. Numerical library was tested on circuit up to 200,000 transistors. | 200-300 nodes, approximately 200 Josephson Junctions |
| Hierarchy support | Natively supports hierarchical circuits | Do not support hierarchical circuits. Hierarchy supported by external mapping files, generated during netlisting |
| Supported platforms | Runs on Windows/Linux/OSX, 32 and 64 bits | Use obscure features of FORTRAN compiler, so do not run on modern Windows and RedHat Linux versions 6 and 7 |
| Node analysis | Support Modified Node Analysis, so it can simulate impedance matrices, for example multi-node transformers or inductances with multiple mutual inductances between them | Do not support Modified Node Analysis. Can simulate only 4-nodes transformer |
| Extensibility | Written in PYTHON, with element models in Cython (which is PYTHON with types, automatically converted into C) for speedup.  So, allows easily incorporate new functions, functionals, or element models.  New functionality can be written in PYTHON, for example, new optimization algorithms. | Written in FORTRAN. New functions can be written in FORTRAN. New functionals (functions with memory) required good understanding of internal PSCAN structures. New models also required such knowledge. |

BTW, comparing PSCAN with PSCAN2 is like comparing 20 years old Volkswagen with new Mercedes