| $n$ | C | A | D D | $T_{\text {min }}$ | $T_{\text {max }}$ | $S T_{\text {min }}$ | $E_{\text {min }}$ | $S T_{\text {avg }}$ | $S T_{\text {max }}$ | $U$ | $R$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 1 | $1{ }_{0,0,1}$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | $20,1,1$ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 5 | 12 | $6_{1,1,1}$ | 4 | 8 | 3 | 3 | 4.667 | 6 | 4 | 4.5 |
| 4 | 14 | 55 | 18 1,1,2 | 11 | 30 | 7 | 7 | 11.510 | 18 | 8.666667 | 10.6 |
| 5 | 42 | 273 | $60_{1,2,2}$ | 32 | 150 | 14 | 14 | 29.313 | 60 | 19.333333 | 25.6 |
| 6 | 132 | 1428 | 222 2,2,2 | 96 | 780 | 27 | 27 | 75.799 | 222 | 44.200000 | 62.828571 |
| 7 | 429 | 7752 | 794 2,2,3 | 305 | 4550 | 58 |  | 197.617 | 794 | 102.733333 | 155.958929 |
| 8 | 1430 | 43263 | 2988 2,3,3 |  |  | 127 | 127 | 517.247 | 2988 | 241.834921 | 390.444048 |
| 9 | 4862 | 246675 | 11856 3,3,3 |  |  |  | 266 |  |  | 574.914286 | 983.978857 |
| 10 | 16796 | 1430715 | 45580 3,3,4 |  |  |  |  |  |  | 1377.587302 | 2492.993468 |
| 11 | 58786 | 8414640 | 180960 3,4,4 |  |  |  |  |  |  | 3322.336508 | 6343.812317 |
| 12 | 208012 | 50067108 | $743160{ }_{4,4,4}$ |  |  |  |  |  |  | 8055.810467 | 16201.746633 |
| lim | it 4.0 | 6.75 | 4.5 |  |  |  |  |  |  | $\approx 2.48$. | $\approx 2.65$ |

$n$ inner points in a triangular convex hull
$C=$ Catalan numbers
$A=$ abstract stacked triangulations $=$ ternary trees with $n$ inner nodes and
$2 n-1$ leaves $=\binom{3 n+1}{n} /(3 n+1) \approx 6.75^{n}$
$D=3$ chains, of lengths ${ }_{i, j, k}$. The limit exponent of 4.5 has been established by Marc.
$T_{\min }, T_{\max }$ all triangulations of a point set (Oswin, from the database)
$S T_{\min }, S T_{\max }$ stacked triangulations of a point set (Oswin, from the database)
$S T_{\text {avg }}$ Average over all realizable order types of the given cardinality (Oswin)
$E_{\min }$ lower bounds on stacked triangulations (Günter) It seems that the lowerbound examples (for $n$ a multiple of 3 ) look like a series of nested concentric triangles, where successive levels are rotated by 180 degrees. The points lying close to a line through the center (they lie on both sides of the center) are probably not uniformly "curved" but they lie in such a way that a line through two such points cuts the points between them evenly. It remains to define such a family precisely and count the stacked triangulations for this family.
$U=$ something random defined by the recursion $U_{n}=\sum_{i=1}^{n} U_{n-i} \cdot \frac{\sum_{j=1}^{i-1} U_{j-1} U_{i-1-j}}{i-1}$.
(For $i=1$, the value of the fraction is taken as 1.) Maybe this is something related to the degree-3-vertices?
$R=$ average number of stacked triangulations on a random set, according to Emo's recursion $R_{n}=\sum_{i+j+k=n-1} R_{i} R_{j} R_{k} \cdot \frac{2}{n+1}$.
Prob[the balanced stacked triangulation with $n$ inner vertices can be embedded on a random point set $] \approx 0.61886974^{n}$ (when $n$ is of the form $\left(3^{k}-1\right) / 2$ ).
This is probably $>\operatorname{Prob}[$ any other fixed stacked triangulation with $n$ inner vertices can be embedded on a random point set].

