

## Tech Note #7

### TreeAge Pro 2006 Release 1.X (Release Candidate/Beta) Changes from v2006 Original Release 0.x

- Custom payoff names** – A new calculation method preference allows custom names to be used for the 9 available payoff/rewards. The custom names are only used in the Enter Payoff, Markov Rewards, and Multi-Attribute Weights windows. (See EDIT > Preferences..., Calculation Method)
- Variable categories** – New options are available for formatting (or hiding) separators between categories in the main tree window. (See VALUES > Variable Categories...)
- Application window** – Double-clicking on a tree or other TreeAge document in Windows Explorer (e.g., on your desktop) no longer automatically opens a new TreeAge Pro application window. An existing TreeAge Pro window will be used, if available.
- Properties grid** – If a node comment is entered for a node, it can be edited in the Properties grid. Also, the Properties grid handles EDIT > Copy/Paste Text commands better.
- Debug pane** – An Actions menu has been added, including Clear, Find, Save, Copy, Font, and other commands.
- Clone updating** – Miscellaneous improvements in the speed of clone updates in large trees.
- Roll back columns** – A new preference allows a custom note to be displayed above roll back columns, if they are used. (See EDIT > Preferences..., Terminal Nodes)
- Monte Carlo EVPI** – Changes in cost-effectiveness simulations: an EVPI curve can be generated in cost-effectiveness simulations (where EVPI or partial EVPI are reported in terms of Net Benefits) showing the sensitivity of the EVPI or pEVPI to a range of willingness-to-pay values; EVPI chart handles negative bars (e.g., if all strategies have negative Net Benefits; EVPI or pEVPI can be reported as either NHB or NMB).
- Monte Carlo scatterplot** – Holding down the CTRL key while moving the mouse over either the CE or ICE scatterplot graph area will report the proportion of simulation results within a few pixels of the mouse pointer. This is useful, for example, when trying to determine whether many identical results are stacked on the same point (e.g., the origin in the ICE scatterplot, where two strategies are equal).

**Monte Carlo seeding options** – A fourth seeding option is added to “Start microsimulation loops with same seed,” which allows for “variation/error reduction” during 2- and 3-dimensional simulations (e.g., probabilistic sensitivity analysis or partial EVPI) which use microsimulation rather than EV calculations. This is in contrast to the other seeding options, where the position in the random number sequence changes from one trial to the next (and is only consistent between decision strategies in a single trial). The new seeding method is also independent of # of processors, strategies, distributions.

**Monte Carlo statistics** – The statistics report appends an additional statistic in one-dimensional microsimulations, reporting the sum of the reported tracker variables values. For example, if 5 iterations report T = 1, 0, 0, 0, 1, then the “Sum” statistic = 2.

**Excel module** – Excel module’s TreeAge menu shows the name of the current tree, and can convert a text outline to tree (without creating/opening a text file in TreeAge Pro). Exporting values, reports and graphs provides an option to utilize an existing worksheet in the current workbook if it has the correct name.

**Markov details report** – A new space-saving option in the Markov details report allows event trees to be turned off completely (still displays initial and final data for each state and stage). Also, if the “Calculate extra payoffs” tree preference is used, columns are displayed for extra reward sets.

**Markov termination** – The VALUES > Markov Termination... command can be used with multiple nodes selected.

**Tracker variables** – Added a preference to enable tracker modifications for expected value calculations in regular trees. (Only works from right to left, in non-Markov tree calculations. Modifications will not be remembered from previous cycles in expected value Markov cohort calculations.)

**Memory-intensive trees** – Large tree optimization preferences are collected in a new Preferences category, including a new preference for turning off variable calculation/search optimization in extremely large, memory-intensive models. (See EDIT > Preferences)

**Text documents** – Text document window includes Find command for simple text searches.

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