Meanings

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| help | Is it a help request (1) or not (0) |
| time | Number of seconds |
| timeSDnormed | for last action, (time taken – avg(cell) / SD(cell); when SD is undefined, or no value exists, use 0 |
| timelast3SDnormed | sum of: for each of last 3 actions, (time taken – avg(cell) / SD(cell); when SD is undefined, or no value exists, use 0 |
| timelast5SDnormed | sum of: for each of last 5 actions, (time taken – avg(cell) / SD(cell); when SD is undefined, or no value exists, use 0) |
| notright | Help = 1, wrong = 1, bug =1, right = 0 |
| howmanywrong | total number of actions where this production was wrong, not just first attempt |
| helppct | (total number of actions where student requested help at this production, not just first attempt)/( number of steps where skill encountered so far (inclusive of current)) |
| wrongpct | (total number of actions where this production was wrong, not just first attempt)/( number of steps where skill encountered so far (inclusive of current)). Help is NOT counted as wrong for this! |
| prev3 | Count of: for each of last 3 actions, how many involved the same interface widget |
| prev5 | Count of: for each of last 5 actions, how many involved the same interface widget |
| recent8help | count of: for each of last 8 actions, how many were help requests |
| recent5wrong | of last 5 actions, how many were wrong (does not count help as wrong) |
| optoprac | number of steps where skill encountered so far (inclusive of current) |
| ReasonAfterExampleB | ReasonAfterExample (reason ^ had example this problem = 1) |
| Question1 | Question1 (first question in multiple-question problems) |
| NumExampleSoFar | Number of example steps, since they started the section |
| timeperact | Total time so far on all actions involving this production, for all problems |
| reason | reason=1, not reason=0 |
| Pknow-2 | Probability student knew the skill according to Bayesian Knowledge Tracing |
| Pknow-1 | Probability student knew the skill according to Bayesian Knowledge Tracing; -1 if skill estimate did not change at this attempt (i.e. not first attempt) |
| Pchange | Did knowledge estimate change |
| Prod | Production (skill) |
| Cell | Specific interface widget |
| asymptoteA, asymptoteB | Skills generally not learned in system |