Stalemate and 'DTS' depth to stalemate endgame tables


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This is an introduction to the ancillary pgn files supporting the article *Stalemate and ‘DTS’ Stalemate EGTs*, published in the *ICGA Journal*, Vol. 41(4), doi: 10.3233/ICG-190133.

### Aloril_maxDTS_stalemates.pgn
Counts, and an example position and DTS-minimaxing line, of the maxDTS(talemate) positions.

- `!!` = only stalematting move;
- `!` = unique DTS-optimal move, depths in ply.

### Aloril_validations_of_Bungart.pgn
DTS-minimaxing lines from Bungart’s 37 positions, verifying Bungart’s maxDTS depths.

### b_Fig2_5_Black_stalemates.pgn
The five ‘1-3’ stalemates of Fig. 2: Black stalemates White.
- These are taken from Beasley & Whitworth’s *Endgame Magic*, Ch. 4, #s 12, 6, 7, 9 and 5.
- The other draw-study stalemates in Ch. 4 are also by Black: #s 1-4 and 8.
- The studies database HHDBV contains 12,402 studies in which Black stalemates White …
- … and only 326 studies in which White stalemates Black.
- Respecting copyright, we do not provide a pgn of the 12,402 studies from HHDBV.
- See also *s_Selman_v2.pgn* below for 39 positions from which Black stalemates White.

### f_flawed_stalemate_studies.pgn
This file’s first study is that by Liburkin featured in the *Oxford Companion to Chess*. A few faulty ‘stalemates by White’ are also included. Faults range from alternative drawing moves to winning moves. The full analysis of the 117 ‘flawed, White to stalemate’ studies was ultimately out of scope for the authors. Readers are invited to add other stalemate studies to this file which they find flawed and flag them up.

### Fig1_5_maxDTS_lines.pgn
Example maxDTS positions and DTS-minimaxing lines for the six endgames with the largest maxDTS.
- Fig. 1: KQPKQ, KPPKP, KPPKQ, KQPKP, KRPKP, KR PKQP (and after 1…d1=Q, a KRPKQ maxDTS position).
- (For similar example maxDTS positions and DTS-minimaxing lines, see *Aloril_maxDTS_stalemates.pgn*.)

### Fig3_5_White_stalemates.pgn
The five ‘3-1’ stalemates of Fig. 3: White stalemates Black.
- As stated above, ‘3-1’ stalemates are relatively rare.

### p_Fig4_5_puzzle_solutions.pgn
The five puzzles of Fig. 4: these ask for DTS-minimaxing lines and are not studies.

### s_Selman_Reciprocal_Stalemates_v2.pgn
The original expositions, recast and elaborated, as follows:
- the first opportunity for stalemate – usually falling to Black – is in the main line,
- Black stalemates from the 39 positions 3, 5-8, 10-41 and 43-4.
- the eventual stalemates, either ‘3-1’ by White or ‘1-3’ by Black, are highlighted, and
- many moves are annotated ‘??’ (losing points in Lasker Chess), ‘!’ (best) or ‘!!’ (only value-preserving).

### Selman_Reciprocal_Stalemates_original.pgn
The positions and analysis of Selman’s *Reciprocal Stalemates* of 1991.
- These are the original expositions, as taken from the database HHDBV.

### w_White_stalemates.pgn
The 326 studies from database HHDBV in which White stalemates Black.
- Harold van der Heijden indicates some sort of flaw in a study with an ‘@’ …
- … 117 of the 326 studies here have an ‘@’ against them:
  - 26 ‘@1’, 59 ‘@2’, 50 ‘@3’ and 5 ‘@4’ as some studies have more than one ‘@ flaw’.

### World_Chess_Ch_2018.pgn