

Total Difficulty

Notation : B_t or block.difficulty

Description : The *Total Difficulty* of a block is defined recursively by a function which calculates the difficulty of all blocks prior to the header in the present block.

$$B_t \equiv B'_t + B_d \quad (1)$$

$$B'_t \equiv P(B_H) \quad (2)$$

Math Symbol	Meaning
B_t	Total difficulty of <i>this block</i> .
B'	<i>This block's</i> parent block.
B_d	<i>This block's</i> difficulty.