1) (I culate Difficulty 2) Block aestion per 3) Consensus rules -> Block consensus, +x rules Difficulty -> How difficult -> gueste nonce L> (PU -) hashrate -) hash bec -) Mega hash bec L> 67PU -> hashrate -> hash bec -> grahash bec () ASIC miness -) hashlate -) hash /sec -) tessa 100000 1 Mega = 106 1000000000 1000000000 - --2003 -) very only to colc nonce In creand difficulty 2014-) CD GPV 2019 -> Gpt ASIC mines 2022 -> 4 Difficulty adjustment Lo ang time / block is lo mining 5 min 2 weeks I week of october - any mining is 15 min 3 week of october -) any time in Tomin 2016×10 min × 2 weeks 10 min -> 2 weeks 2016 Mades)--x(2016) china bound mining—

2-3 asic

20-38: of Miness went offline 2075 declared Mastering Bitcoin - Bibles probte Eth Pos Fask Mast Etheleum Block deation fee Difficulty change 2016 block

Reward — Ax fels 2

coinbase / mining lewald 2 10000 - 21000 - 21000 0 6.723BI(certain blocks > per structule 210000 blocks cointrase remard divided by 2 control the phice Philo of BT1 in crease 4 year halving cryste 2140 -> (21 million Ceato a Company -> Softweele Block chain Domo assensus mechanism -> part of blockchein Architecture Proof of Concopt Bétioin Consenses BT (softwale Proy of work PUW conservers syntactic correctness rules Block rehid sender address 16x -> not out ty
they hash le ceiver " amount $U \rightarrow \swarrow_{0}$ Morkle root Block Harget hash Blockno oblet nonco

- Block hash
all + x hash
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Prevhash merkde loot File system

backend project

Bit ion White paper -) story mode