

Important notice for Litecoin mining pools regarding Segwit and CSV (Johnson Lau. [jl2012@xbt.hk](mailto:jl2012@xbt.hk) 2017-04-27)

Segwit and CSV will be activated at block 1,201,536, on about 2017-05-11. It may happen earlier depending on hashrate. Please get prepared before the activation.

The relevant BIPs are 68, 112, 113, 141, 143, 144, 147 ( <https://github.com/bitcoin/bips> )

You must pay serious attention to all the following points, or you may produce invalid blocks:

- The Segwit on Litecoin has an extra rule over BIP141: after activation, the block nVersion value MUST NOT be smaller than 0x20000000 (536870912)
- If you set the block nVersion manually, it MUST be  $\geq$  0x20000000 after activation (recommended value: 0x20000000)
- By default, the nLockTime value of the Coinbase transaction is 0. If you are using a different nLockTime value, make sure it follows BIP113 (recommended value: 0)
- If you have any nodes that are 0.10 or older, you MUST upgrade them to 0.13.2 or master before activation, or you may create invalid blocks and mine on top of other's invalid blocks
- Please pay attention to all your full nodes, both for block synthesizing and relaying, are upgraded. Relaying nodes of old version CANNOT relay Segwit blocks correctly, and the block will be rejected by the network
- If you have any difficulties in upgrade, or you can't upgrade to 0.13.2 for any reason, please contact me for further advice and assistance.

You are strongly recommended to do testing on testnet4 before activation. This is the ONLY way to make sure everything are ready. Please follow the instructions:

- Since Litecoin has just reset its testnet, you need to compile the master branch (<https://github.com/litecoin-project/litecoin>) in order to use testnet4
- If you couldn't find any testnet4 peers, please try 104.236.211.206:19335 and 138.197.147.176:19335
- After connected, you may try to mine some blocks. I am running a script to automatically generate traditional and Segwit transactions every 40 seconds
- When you find some blocks, please provide the block height/hash to me. I will check if your blocks are valid.

Other resources:

<https://bitcoincore.org/en/2016/10/27/segwit-upgrade-guide/> . Unlike Bitcoin, miner upgrade is mandatory for Segwit on Litecoin because Litecoin skipped versions 0.11 and 0.12.

<https://github.com/thrasher-eloipool/commit/d488480c263c57a1e5151a6db3090d1413d3a054>

<https://github.com/zone117x/node-stratum-pool/pull/115>

<https://github.com/UNOMP/node-merged-pool/pull/4>

Litecoin矿池Segwit及CSV注意事项(Johnson Lau. jl2012@xbt.hk . 2017年4月27日更新)

Segwit及CSV会在1,201,536号区块开始正式生效，大概是2017年5月11日以前，按算力而定可能提前。请在此以前做好以下所有准备工作。

相关BIP为BIP68, 112, 113, 141, 143, 144, 147 ( <https://github.com/bitcoin/bips> )

以下各点必须重点留意，否则可能导致无效区块

- 在Litecoin上的Segwit比BIP141多了一条规则：激活后的区块版本号不能小于0x20000000 (536870912)，否则区块无效。
- 如果你的区块版本号为手工设定，于激活后必须为0x20000000或以上（建议固定为0x20000000）。
- 预设情况下，Coinbase交易的nLockTime值为0。如果你使用了其它nLockTime值，必须确保符合BIP113的要求。（建议固定为0）
- 如果你仍有节点在使用0.10或更老的版本，请务必在生效前升级至0.13.2或master，以防挖出无效块，或在别人的无效块之上开挖。
- 请留意是否所有节点，包括负责打包的节点和中继节点皆已升级。旧版本的中继节点不能正确传送Segwit区块，即使传送出去也不会被网络接受。
- 如果你在升级上遇上困难，或在短时间内不能全面升级至0.13.2，我可以提供建议和技术协助。

我也强烈建议在激活前要先在testnet4测试，这是唯一可以确认你所有设定正确的方法。测试指引如下：

- 由于Litecoin的testnet刚重新启动，你需要编译master (<https://github.com/litecoin-project/litecoin>) 才能进入testnet4。
- 如果你找不到testnet4节点，请尝试104.236.211.206:19335及138.197.147.176:19335。
- 当你已连接至testnet4，就可以尝试挖矿。我正在运行一个自动程序，在testnet4每40秒各产生一个传统及Segwit交易。
- 当你挖到一些区块后，请联络我并提供区块高度及hash，我会检查区块是否正确。

更多资讯：

bitcoincore.org 的有关资讯：<https://bitcoincore.org/en/2016/10/27/segwit-upgrade-guide/>。和Bitcoin不同，在Litecoin上的Segwit要求矿工必须升级，因为Litecoin跳过了0.11和0.12两个版本。

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