

**To verify the checksums, you can use
"GtkHash" with Ubuntu Linux or, for example,
"Checksums calculator" from Sigma Informatics
with different operating systems.**

GtkHash: Installation from [here](#) or with Synaptic (Ubuntu)

Checksums calculator: Download from [Sigma Informatics](#)

Checksums

Version June 01, 2025

(Manual and programs have been slightly revised.)

File **p5-manual-06-2025.pdf** (Size: 14,142,135 Bytes)

md5: 49de7e7cc1a0e9cc36521766a7b35d87
sha1: 0d6103c7d084e7e86711570ebbae3c6be4504b5a
sha256: 15d34fa694b18c0dad2c068346f7db47af0d0f7e9866af2becc7192043bc9527
sha3-256: a64f75bd329aac5eb3f33e4088e9e581d685a4419eaf9ebb436205df2092e086
crc32: 971ba25f

File **p5-program-06-2025.zip** (Size: 4,755,580 Bytes)

md5: a86093255d4b49a4bb8562b7f8cfc2d0
sha1: caf7960120ab7117b4f39118be0323e972e40196
sha256: 647ae1c2bbcf3c69b1744028004b04c743252a5e19fcad6d933ec25e4e6990a5
sha3-256: 18eb10ac20c66b2f683245ad372b34808dee18b26630772cc3464ae465aa636a
crc32: b6f4081c

File **topo-program-06-2025.zip** (Size: 14,713,830 Bytes)

md5: 3ba563f89ea783b4784416cf7f8a5803
sha1: e3a386d0ae712ceed0d584b877a2c729a45937c9
sha256: 95864aff9b84bf071e8841aa41b965f298b1532a10d2144bb4ec58fb30d13c0e
sha3-256: 0e0097b2e6da5ccf29510ce494d35a5f6fcc80614fab168fade4a07ac4f418f0
crc32: 5bf5892f