

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 August 2022

File [p5-manual-08-2022.pdf](#) (Size: 13,225,022 Bytes)

md5: a4cb32e0339a25cab2aaa78858830f89
sha1: e8b15b0cdc3dca38c350074a96bcda9af2686cfb
sha256: dd5920232d43c4cfadf2394a9c3dc7a4fc3bb8319fd252c958d22ea15de10b51
sha3-256: db2df497693af9048fc1170cdb4b51c22ae2fc77521a29aff391b1c9f20108dd
crc32: 64c900e8

File [p5-program-08-2022.zip](#) (Size: 4,980,436 Bytes)

md5: 613486d6aae4654dc54e063cdb871bef
sha1: 11d34953b482e7b7e2ccfbe9b8cec428a24dae07
sha256: 65d9826dbc5889a9f2b3515f2c74fc3715e210d76c661dd469e6cf7722f6b808
sha3-256: afb12da4eda47854120e91e0d0689b0c391ba0b1e6a122d9f9793393a3883393
crc32: 3130e265