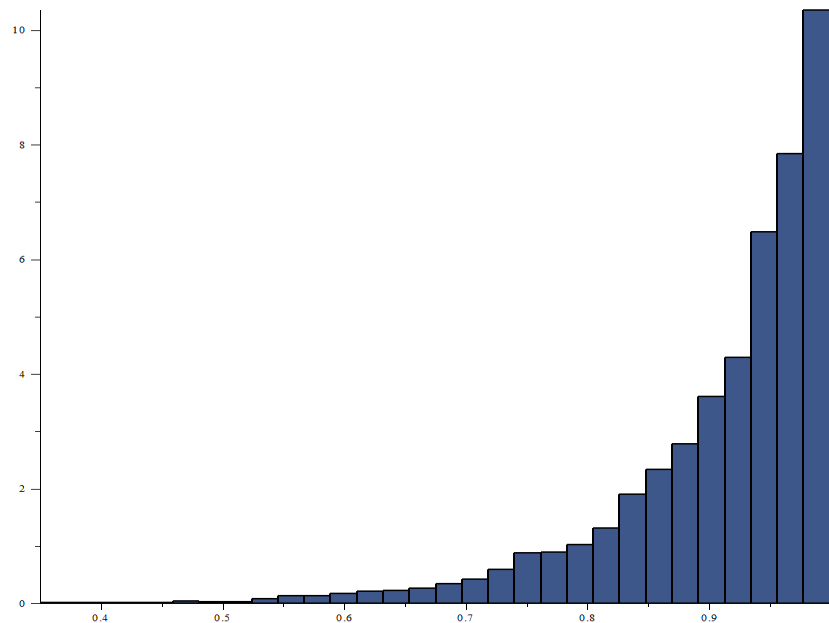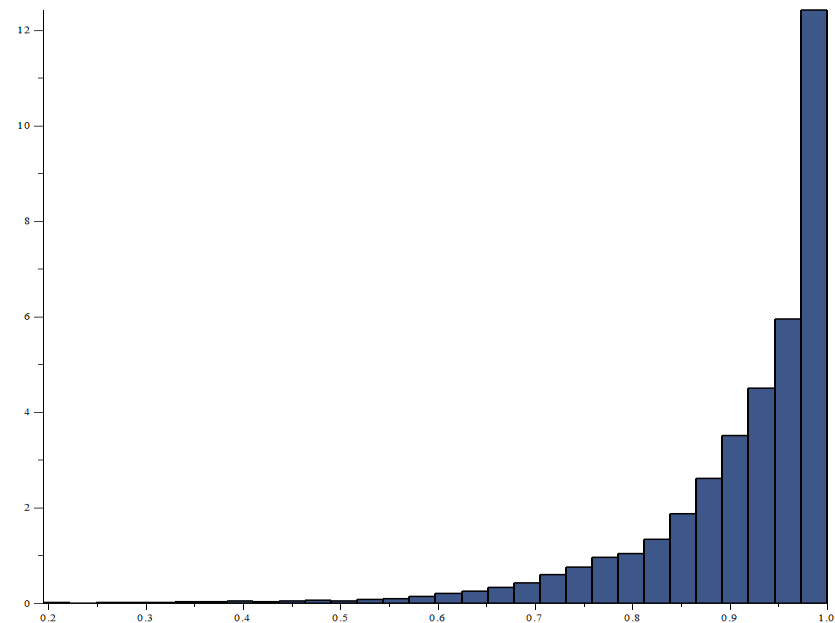Histogram of scaled Jacobian

Our method
13584 hexes
(ave, min, dev) = (0.911,0.351,0.088)
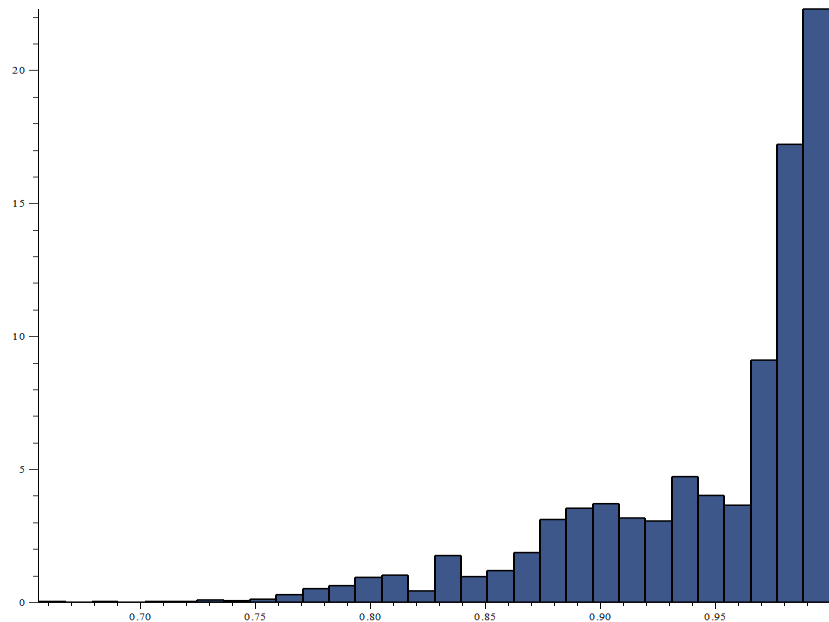
Volumetric PolyCube
19870 hexes
(ave, min, dev) = (0.911,0.196,0.100)
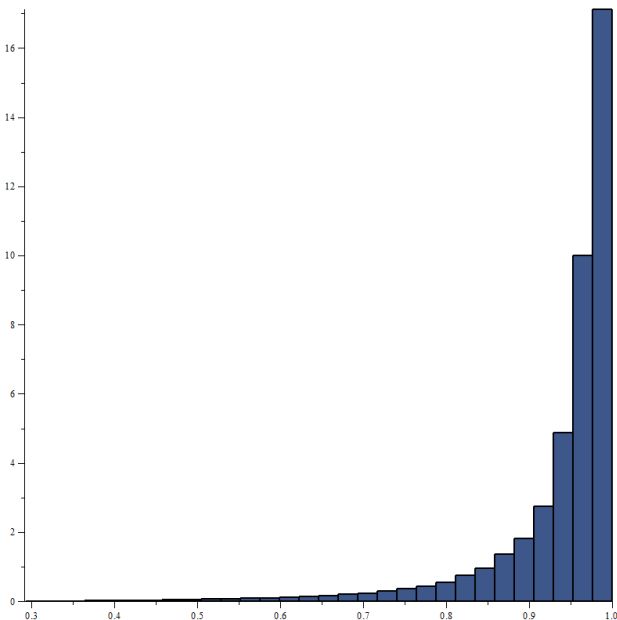
Fertility

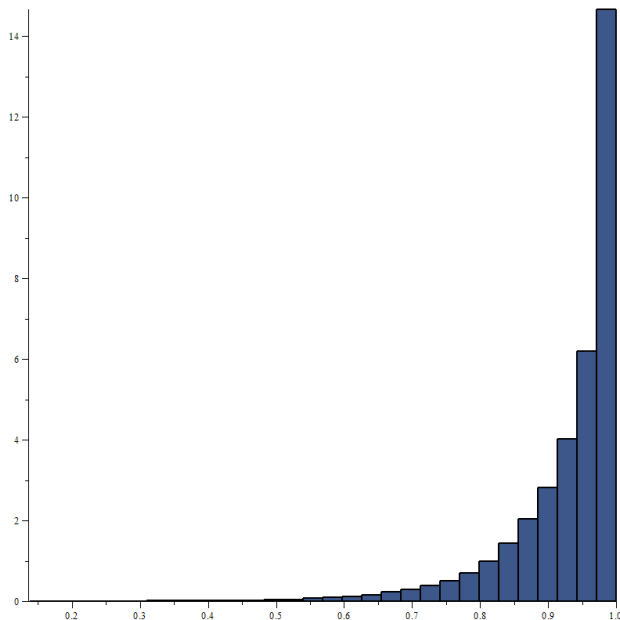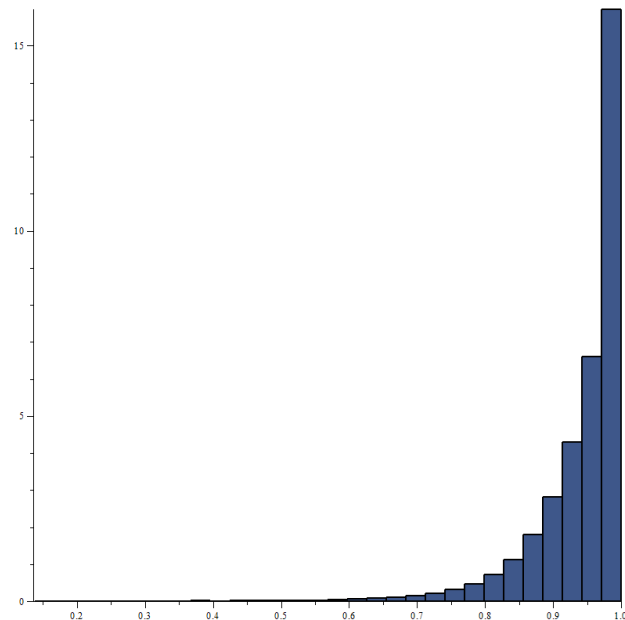Histogram of scaled Jacobian

Our method
5488 hexes
(ave, min, dev) = (0.947,0.658,0.056)

Volumetric PolyCube
18028 hexes
(ave, min, dev) = (0.950,0.131,0.076)

Rod

Histogram of scaled Jacobian

Our method	Volumetric PolyCube	Volumetric PolyCube
133632 hexes	81637 hexes	653096 hexes
(ave, min, dev) = (0.940,0.293,0.079)	(ave, min, dev) = (0.930,0.138,0.084)	(ave, min, dev) = (0.943,0.138,0.073)

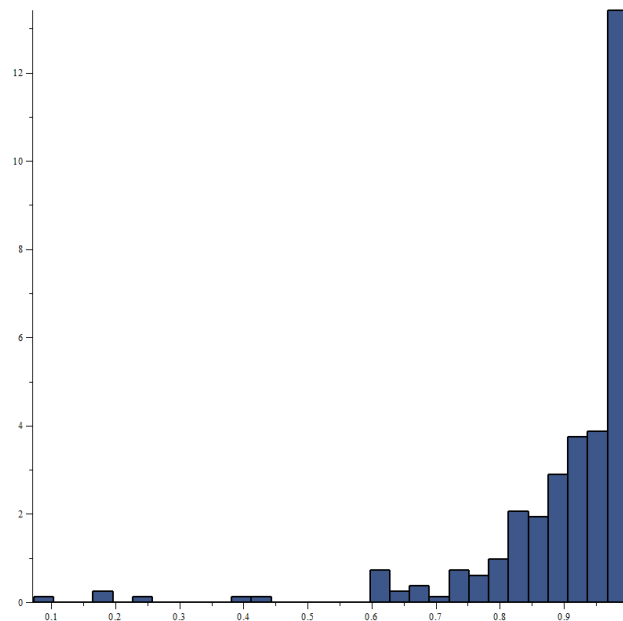**Bunny**

Histogram of scaled Jacobian
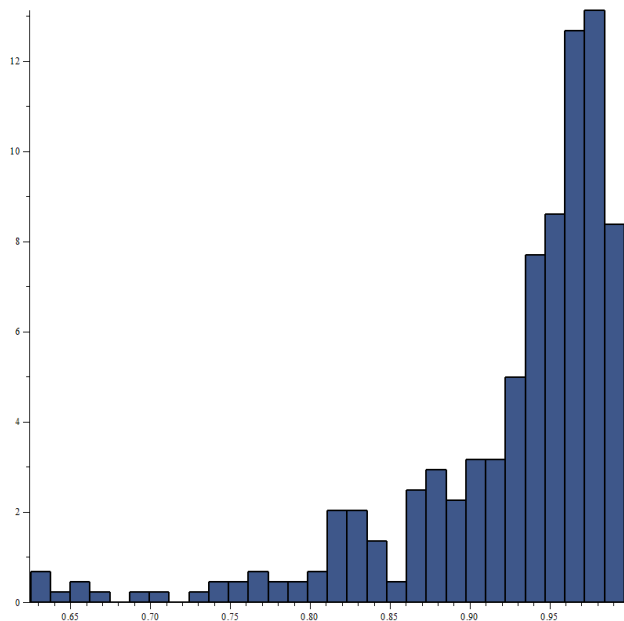
Our method
357 hexes
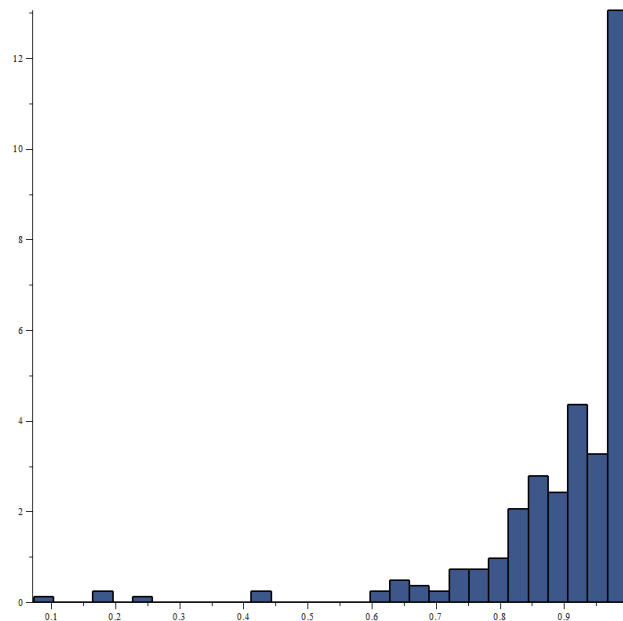(ave, min, dev) = (0.926,0.625,0.071)

CubeCover
268 hexes
(ave, min, dev) = (0.902,0.073,0.134)

Fandisk (hex meshes are not optimized by Mesquite)

Histogram of scaled Jacobian
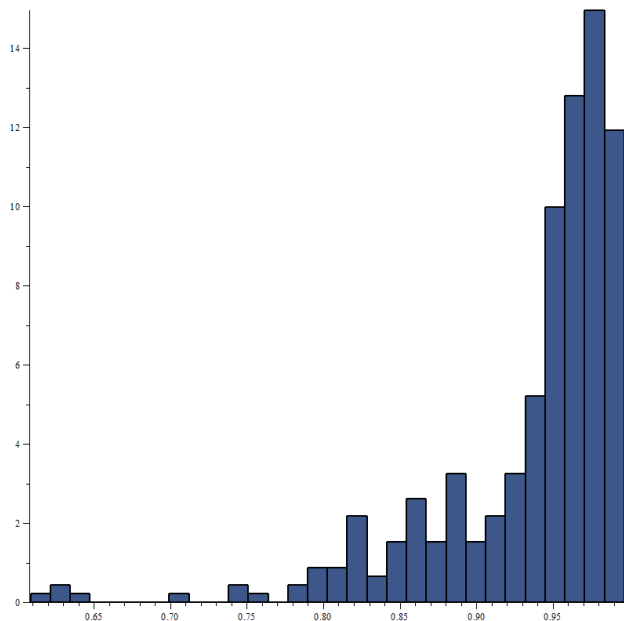
Our method
357 hexes
(ave, min, dev) = (0.936,0.609,0.063)

CubeCover
268 hexes
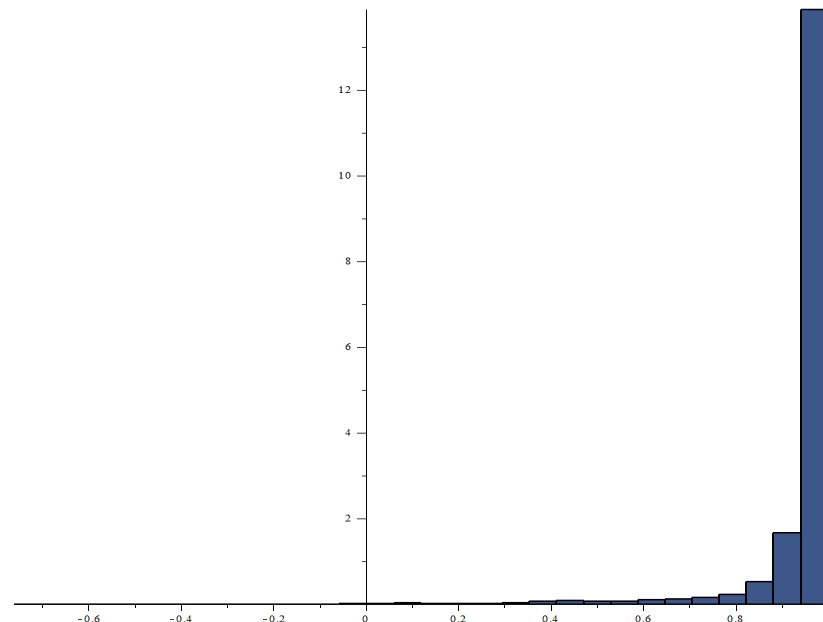(ave, min, dev) = (0.900,0.073,0.131)

Fandisk (optimized by Mesquite)

Histogram of scaled Jacobian
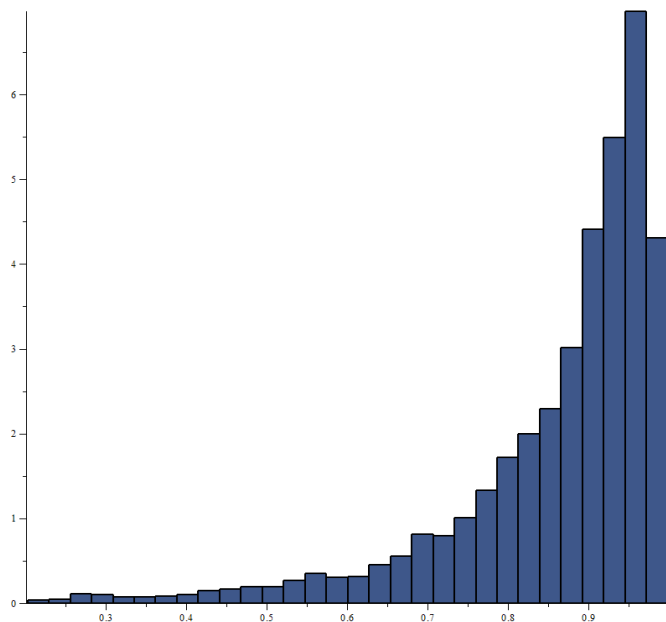
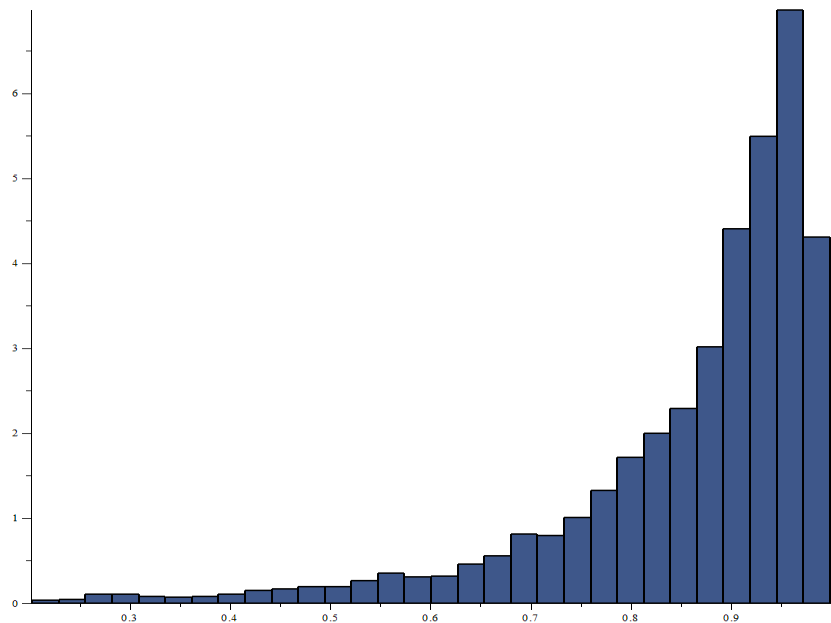Our method
10600 hexes
(ave, min, dev) = (0.861,0.203,0.133)

CubeCover
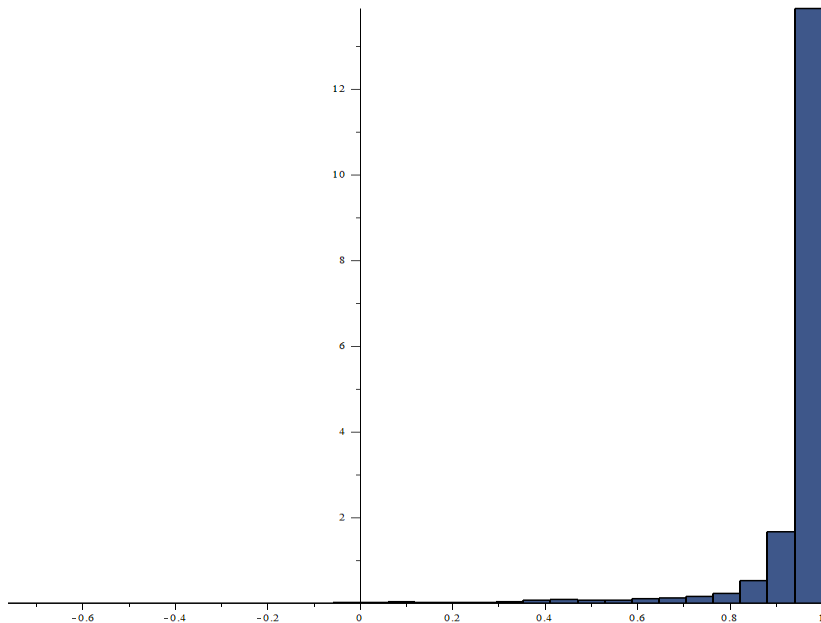35502 hexes
(ave, min, dev) = (0.950,-0.761,0.107)

Rocker arm (hex meshes are not optimized by Mesquite)

Histogram of scaled Jacobian

Our method
10600 hexes
(ave, min, dev) = (0.866,0.209,0.115)

CubeCover
35502 hexes
(ave, min, dev) = (0.950,-0.761,0.107)

Rocker arm (optimized by Mesquite). Due to the existence of reversed hexes, Mesquite fails to optimize CubeCover's result.