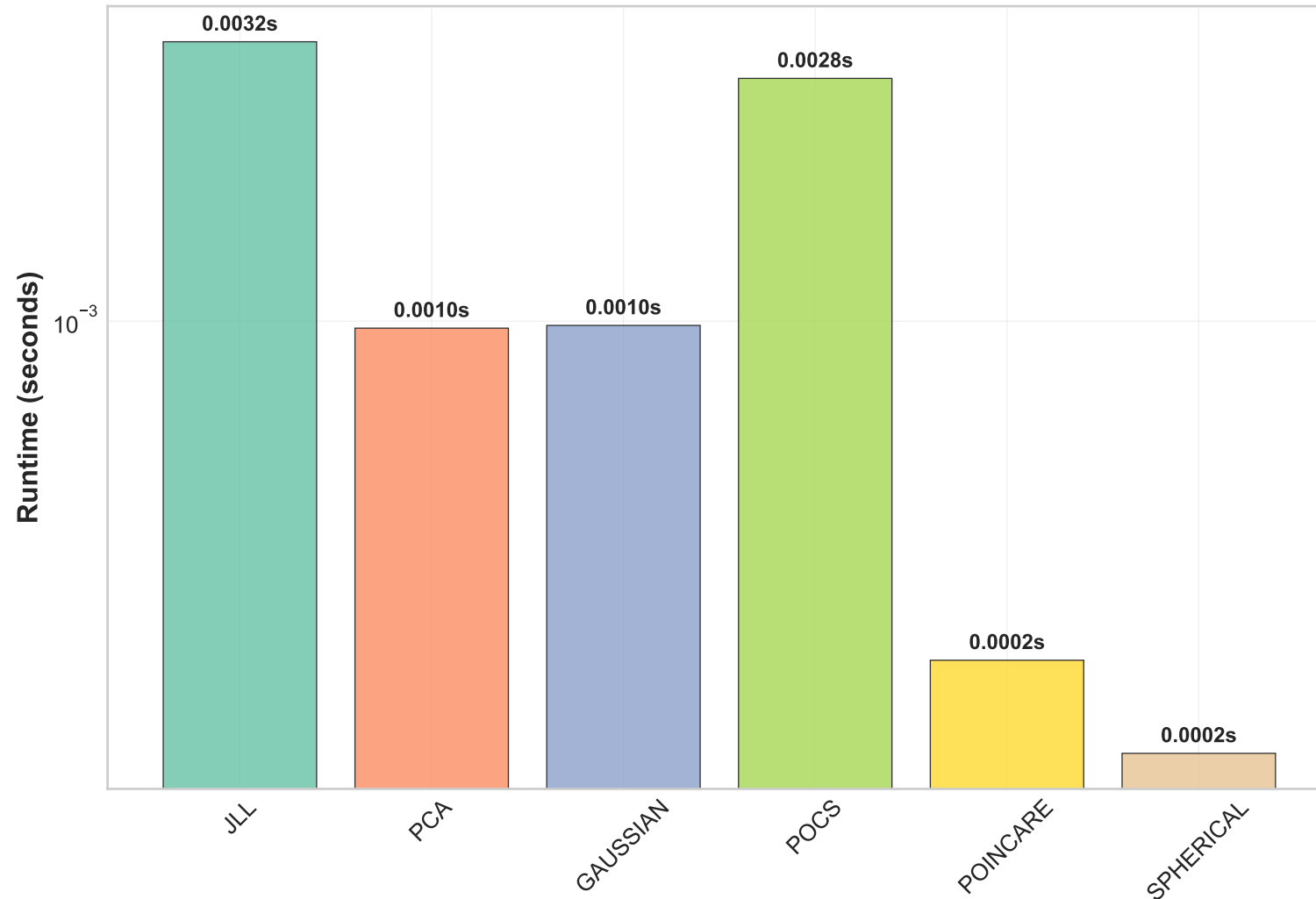
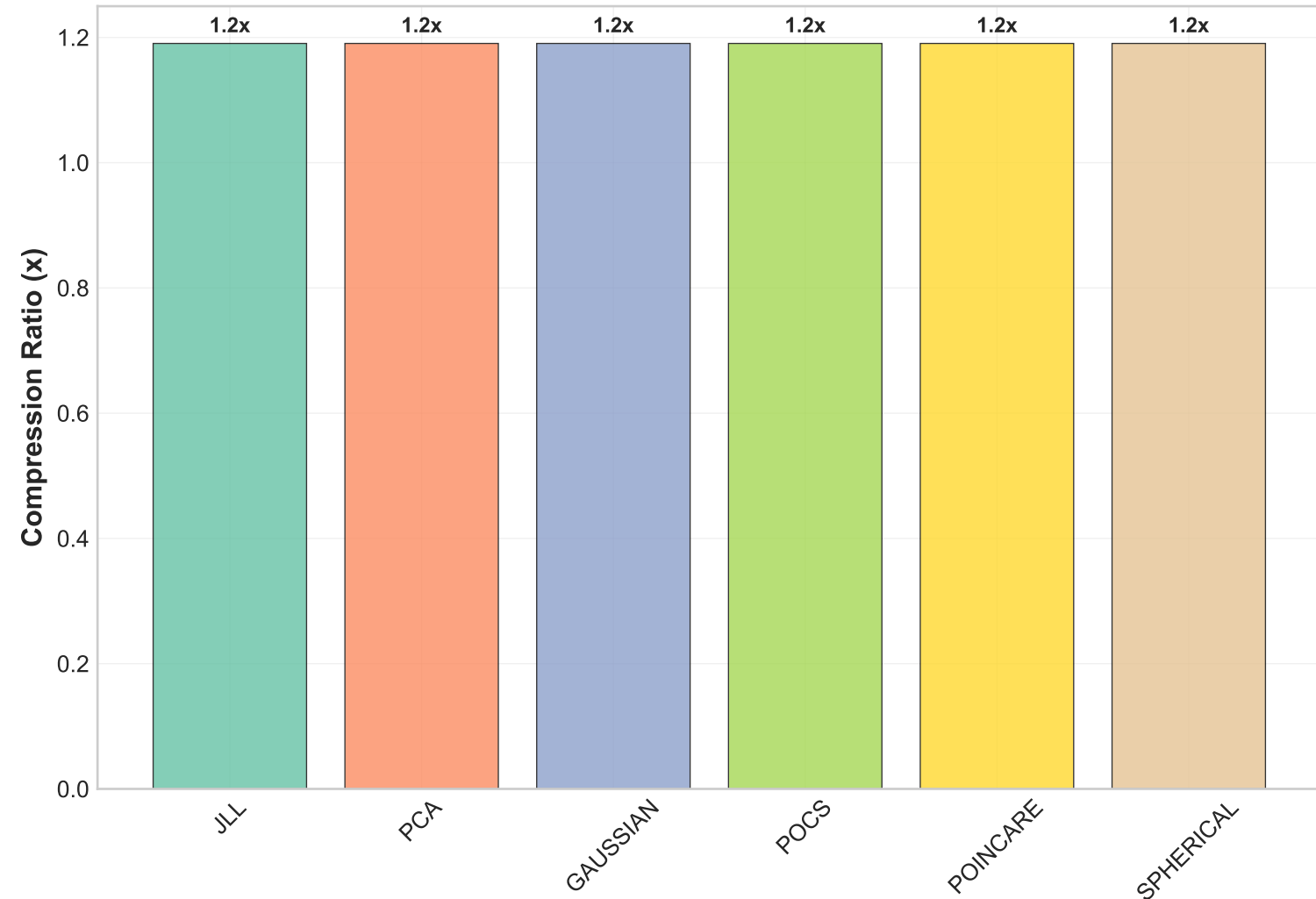


OrthoReduce Performance Dashboard

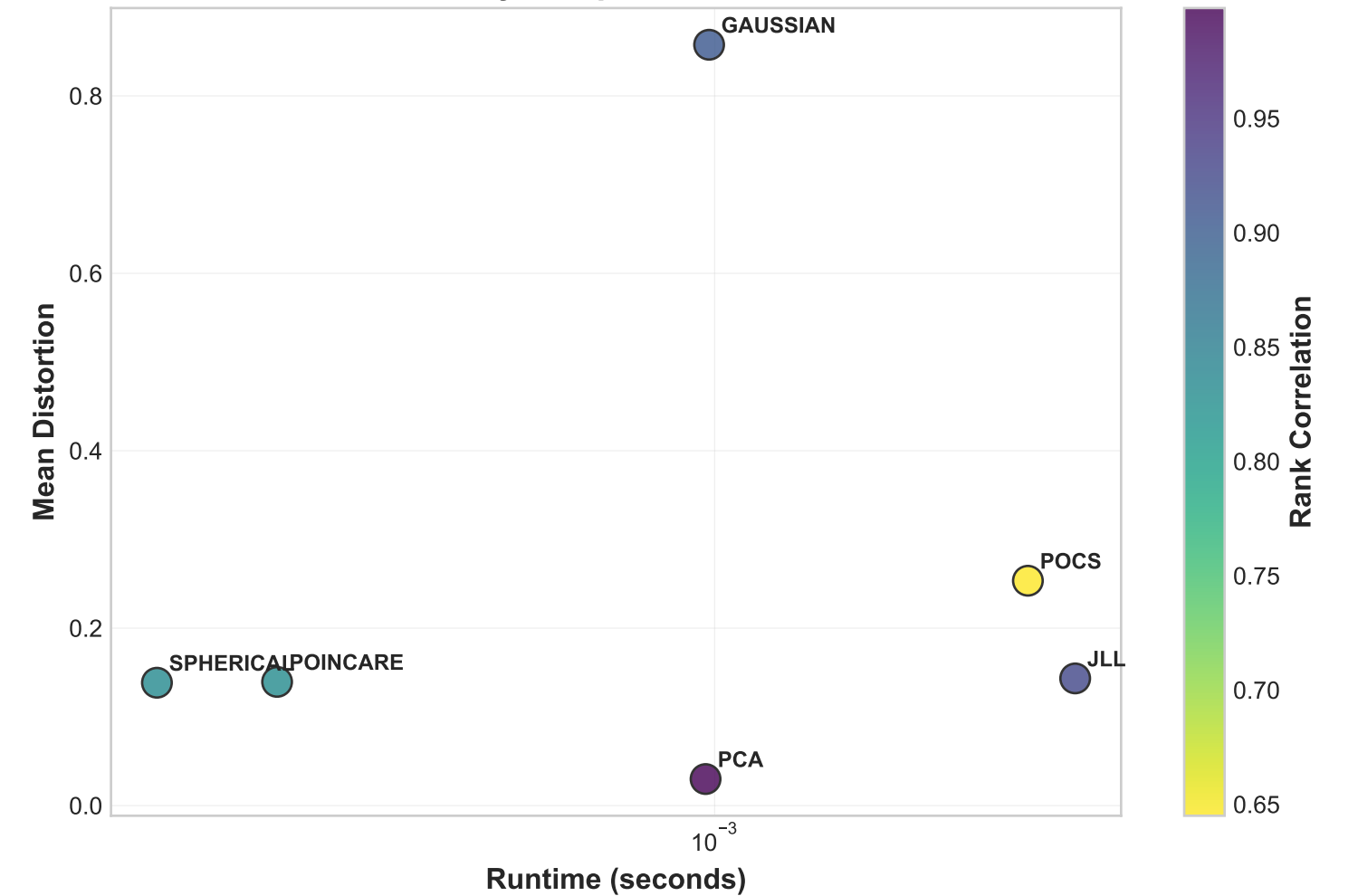
Runtime Performance (Log Scale)



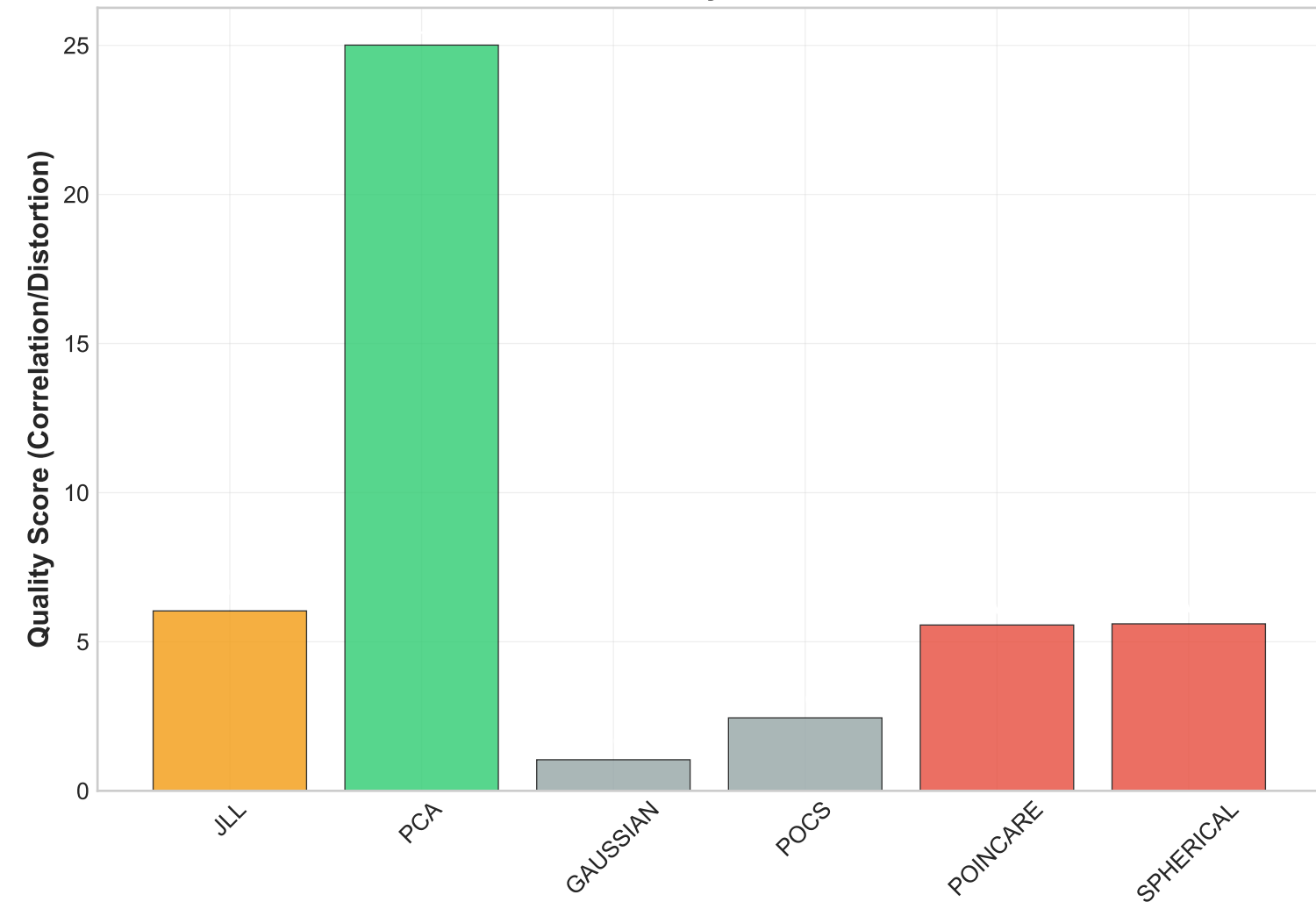
Compression Effectiveness



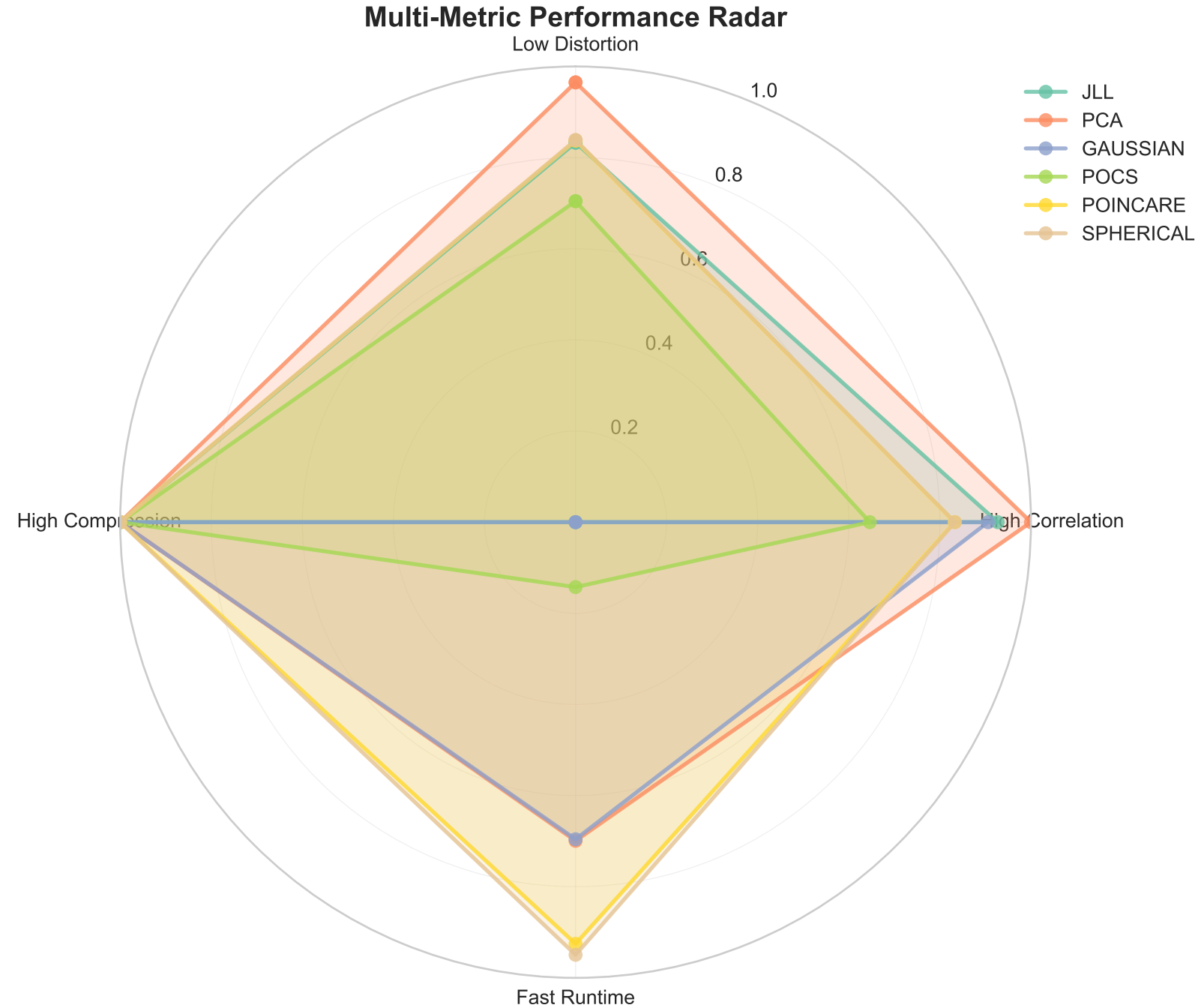
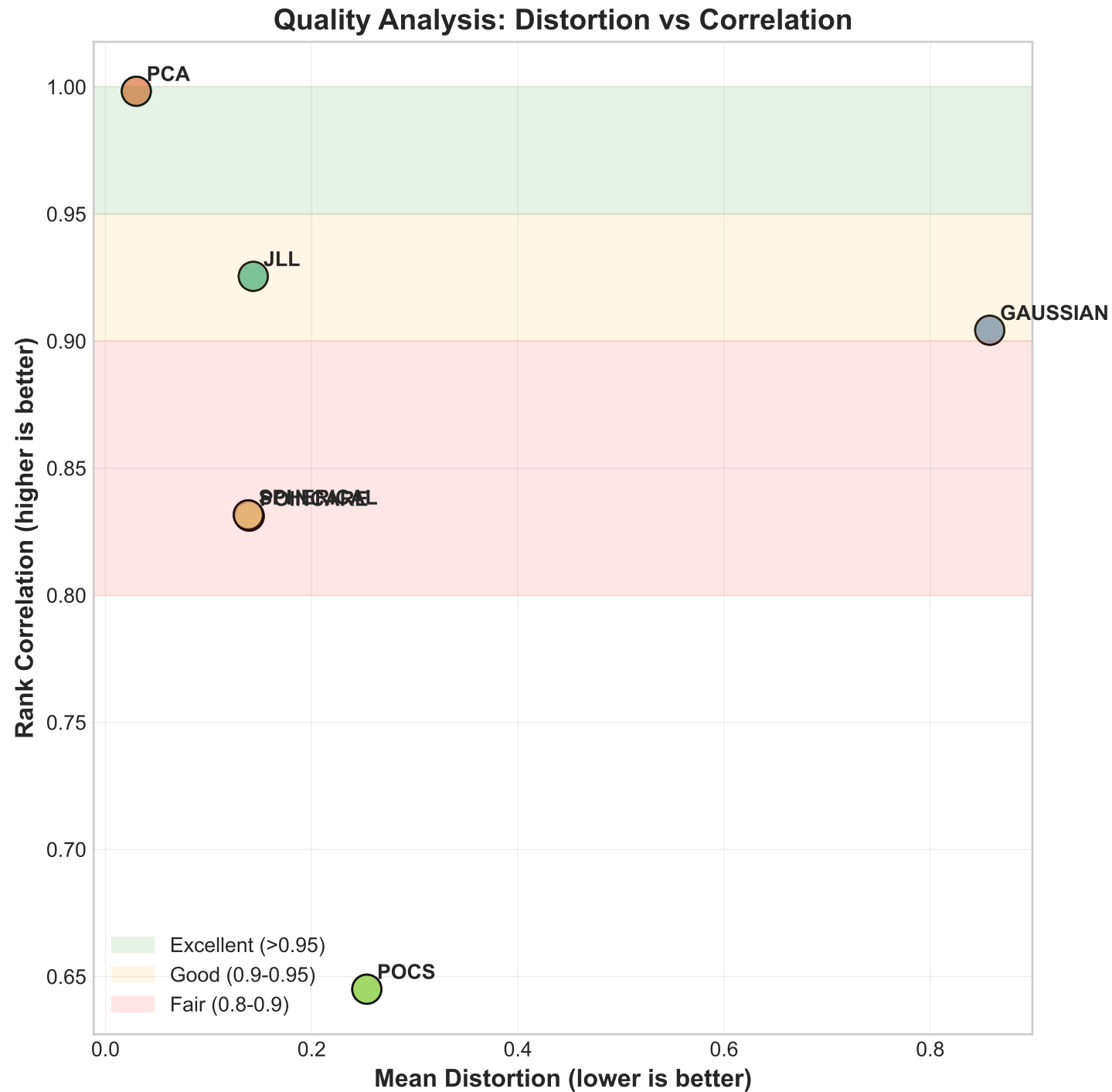
Quality vs Speed Trade-off



Overall Quality Assessment



Method Comparison Analysis



Detailed Results Summary

Method	Runtime	Compression	Mean Distortion	Max Distortion	Rank Correlation	Quality Grade
PCA	0.0010s	1.19x	0.0299	0.4233	0.9983	EXCELLENT
JLL	0.0032s	1.19x	0.1434	0.5186	0.9255	GOOD
GAUSSIAN	0.0010s	1.19x	0.8577	2.2106	0.9043	POOR
SPHERICAL	0.0002s	1.19x	0.1385	1.0135	0.8317	FAIR
POINCARÉ	0.0002s	1.19x	0.1394	0.8781	0.8311	FAIR
POCS	0.0028s	1.19x	0.2535	2.0226	0.6450	POOR

Experiment Configuration:
Dataset: 500 points, 50 dimensions → 42 dimensions
Compression: 1.19x reduction
Epsilon: 0.2
Intrinsic Dimension: 35
Optimization: Adaptive