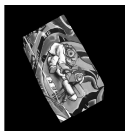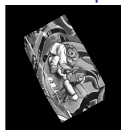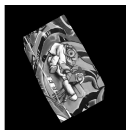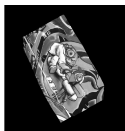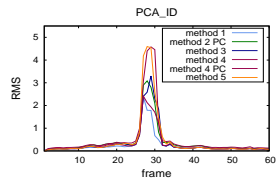# Benchmark Sequence, PCA from ID basis, frame 1
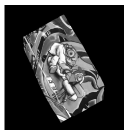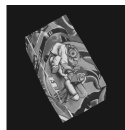

input   reference   residual
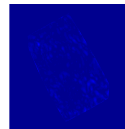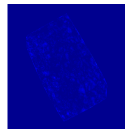
inverse warps
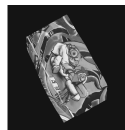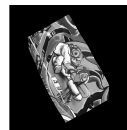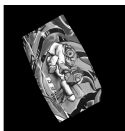
method 1   method 2 pc   method 3   method 4   method 4 pc   method 5

flow differences

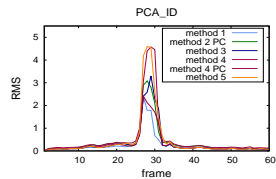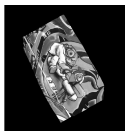# Benchmark Sequence, PCA from ID basis, frame 2
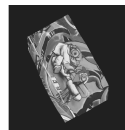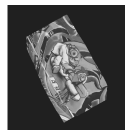
Benchmark Sequence, PCA from ID basis, frame 3
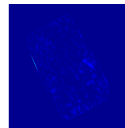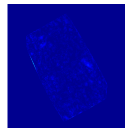
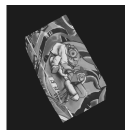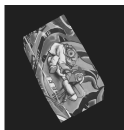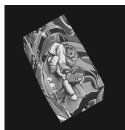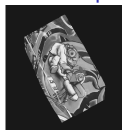# Benchmark Sequence, PCA from ID basis, frame 4

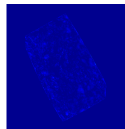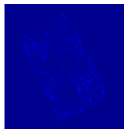input   reference   residual

inverse warps
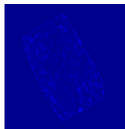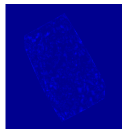

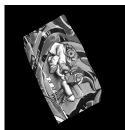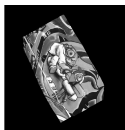method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
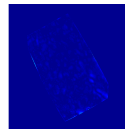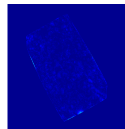
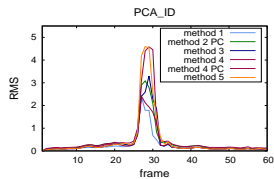flow differences
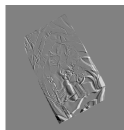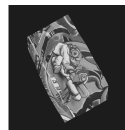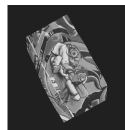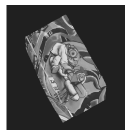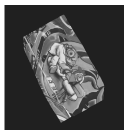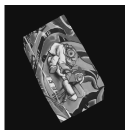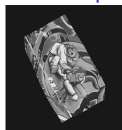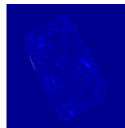
Benchmark Sequence, PCA from ID basis, frame 5
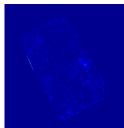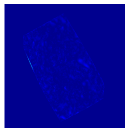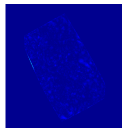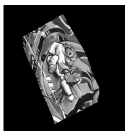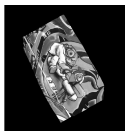
input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
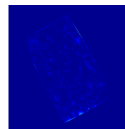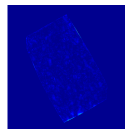
flow differences
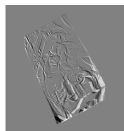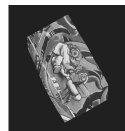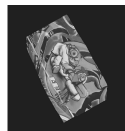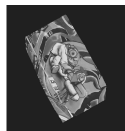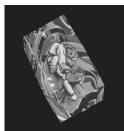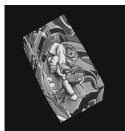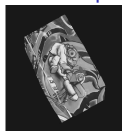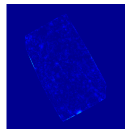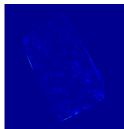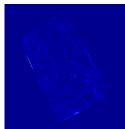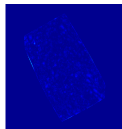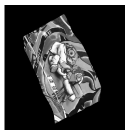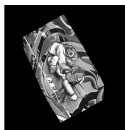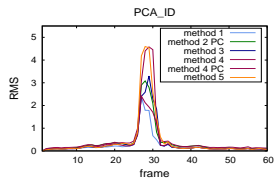
Benchmark Sequence, PCA from ID basis, frame 6

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
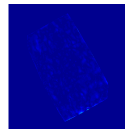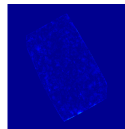
flow differences

Benchmark Sequence, PCA from ID basis, frame 7

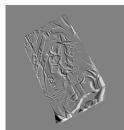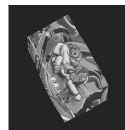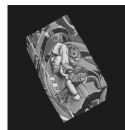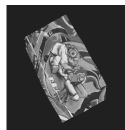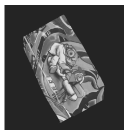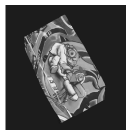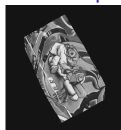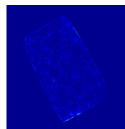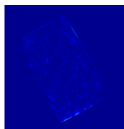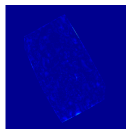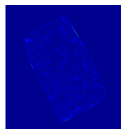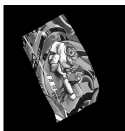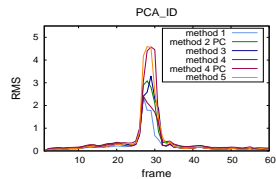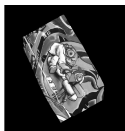input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
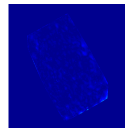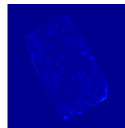
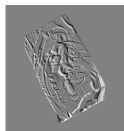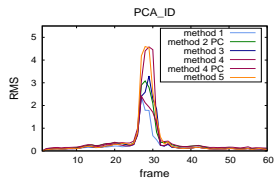flow differences
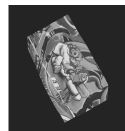
Benchmark Sequence, PCA from ID basis, frame 8

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
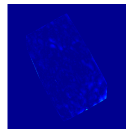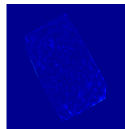
flow differences

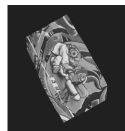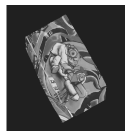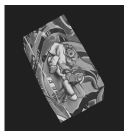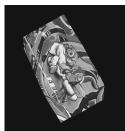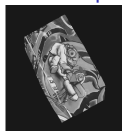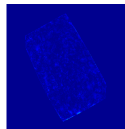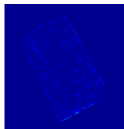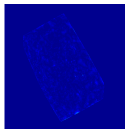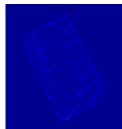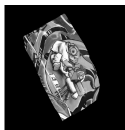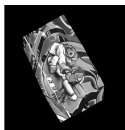# Benchmark Sequence, PCA from ID basis, frame 9

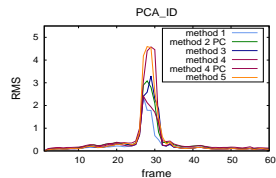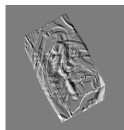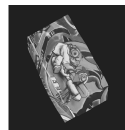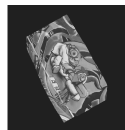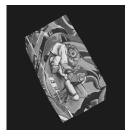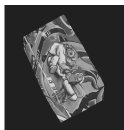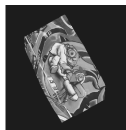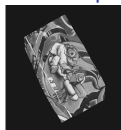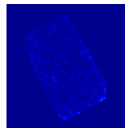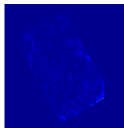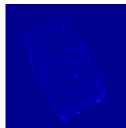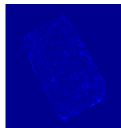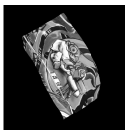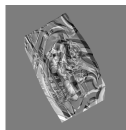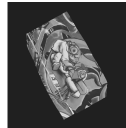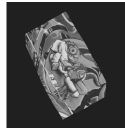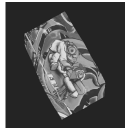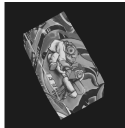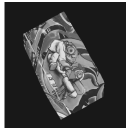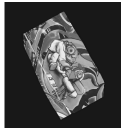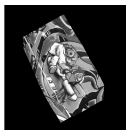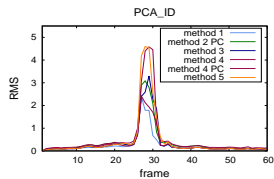input   reference   residual
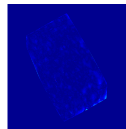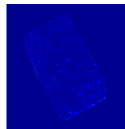
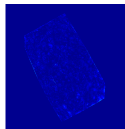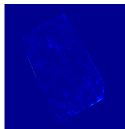inverse warps

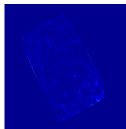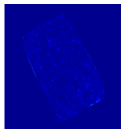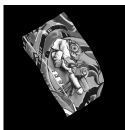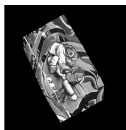method 1   method 2 pc   method 3   method 4   method 4 pc   method 5

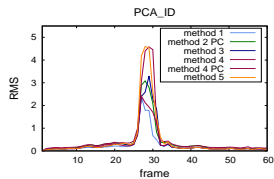flow differences
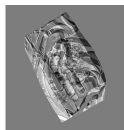
Benchmark Sequence, PCA from ID basis, frame 10
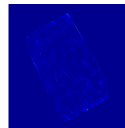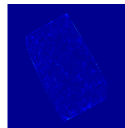
Benchmark Sequence, PCA from ID basis, frame 11

input   reference   residual

PCA_ID
method 1
method 2 PC
method 3
method 4
method 4 PC
method 5

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
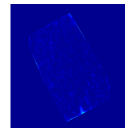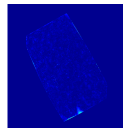
flow differences

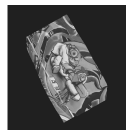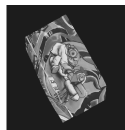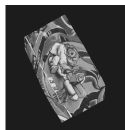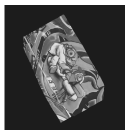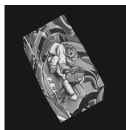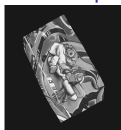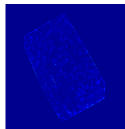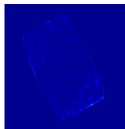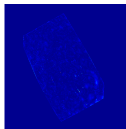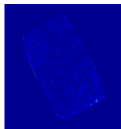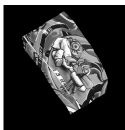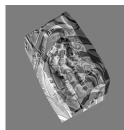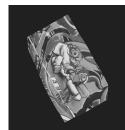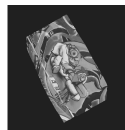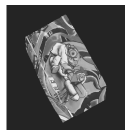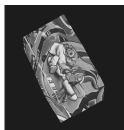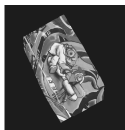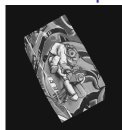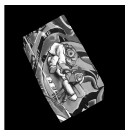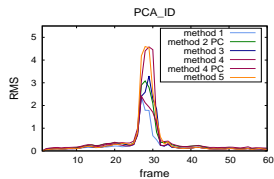# Benchmark Sequence, PCA from ID basis, frame 12
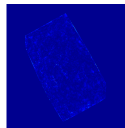

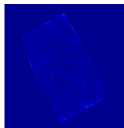input   reference   residual

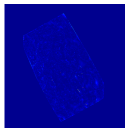inverse warps

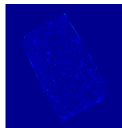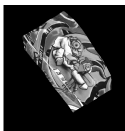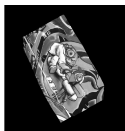method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
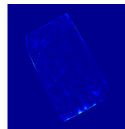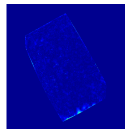
flow differences

Benchmark Sequence, PCA from ID basis, frame 13

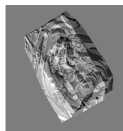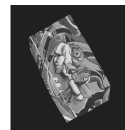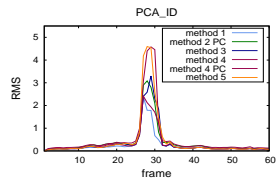input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
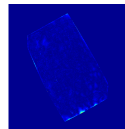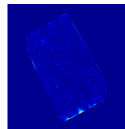
flow differences

Benchmark Sequence, PCA from ID basis, frame 14

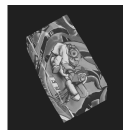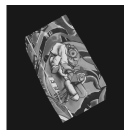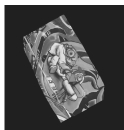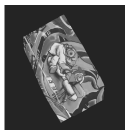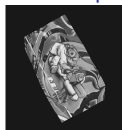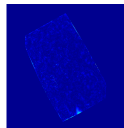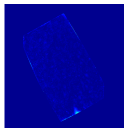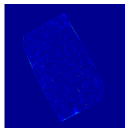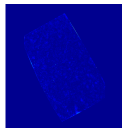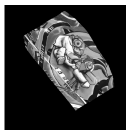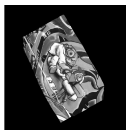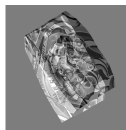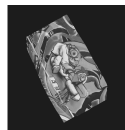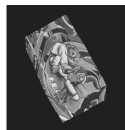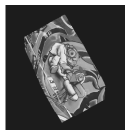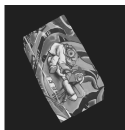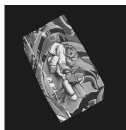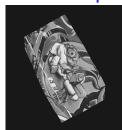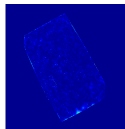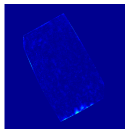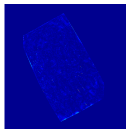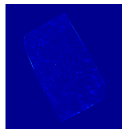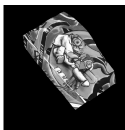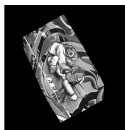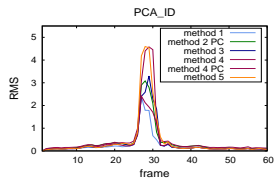input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
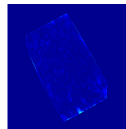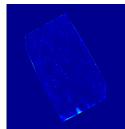
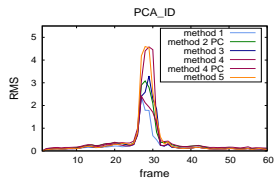flow differences
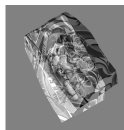
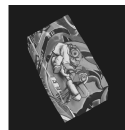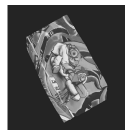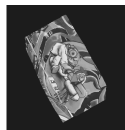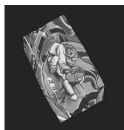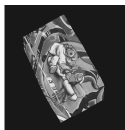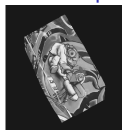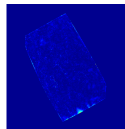# Benchmark Sequence, PCA from ID basis, frame 15

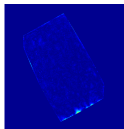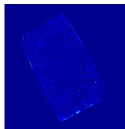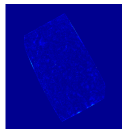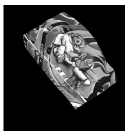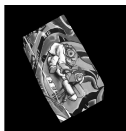
input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
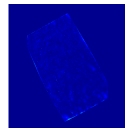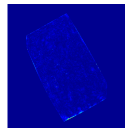
flow differences

Benchmark Sequence, PCA from ID basis, frame 16

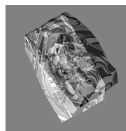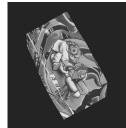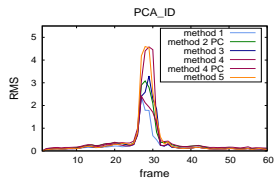input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
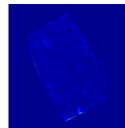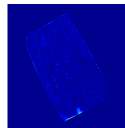
flow differences

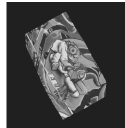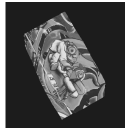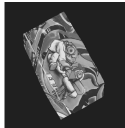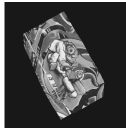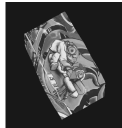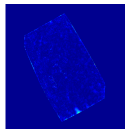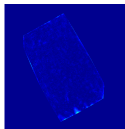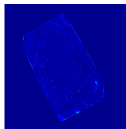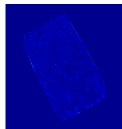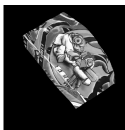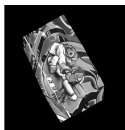# Benchmark Sequence, PCA from ID basis, frame 17

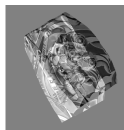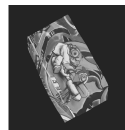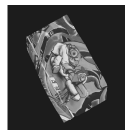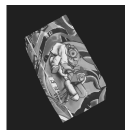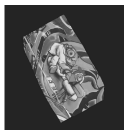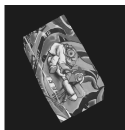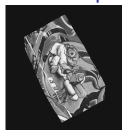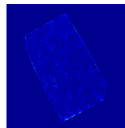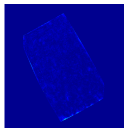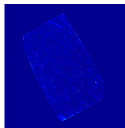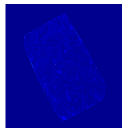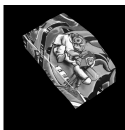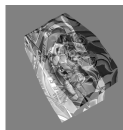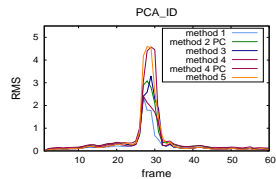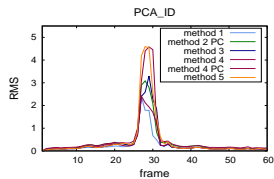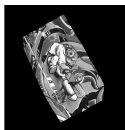input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
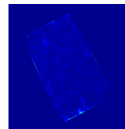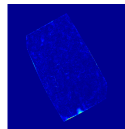
flow differences

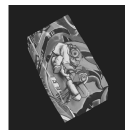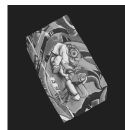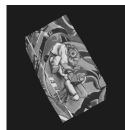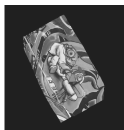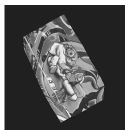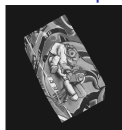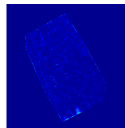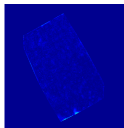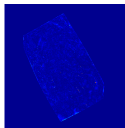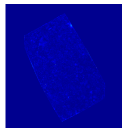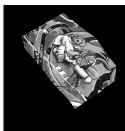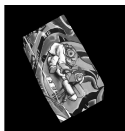# Benchmark Sequence, PCA from ID basis, frame 18

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
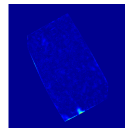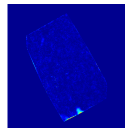
flow differences

Benchmark Sequence, PCA from ID basis, frame 19

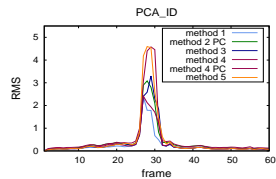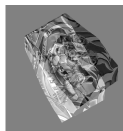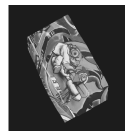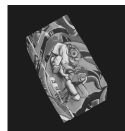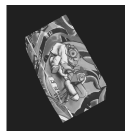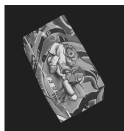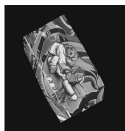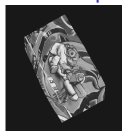input   reference   residual

inverse warps

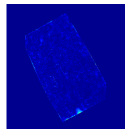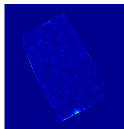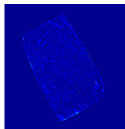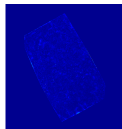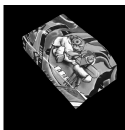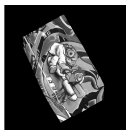method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
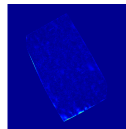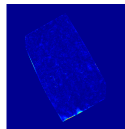
flow differences

Benchmark Sequence, PCA from ID basis, frame 20

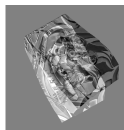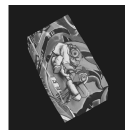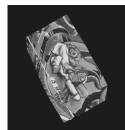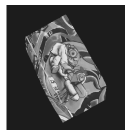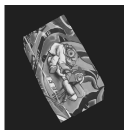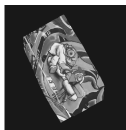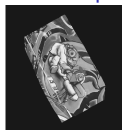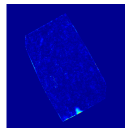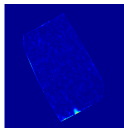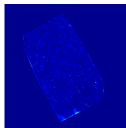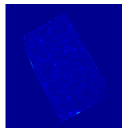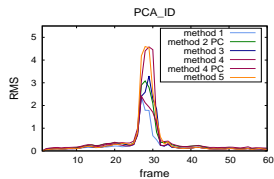input   reference   residual

inverse warps

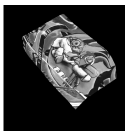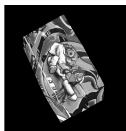method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
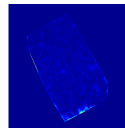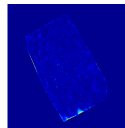
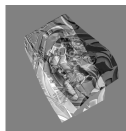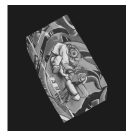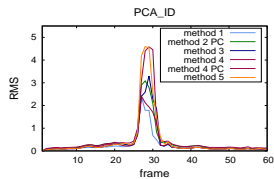flow differences

Benchmark Sequence, PCA from ID basis, frame 21

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
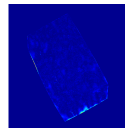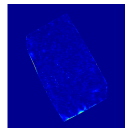
flow differences

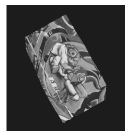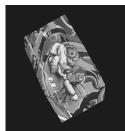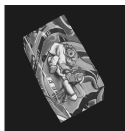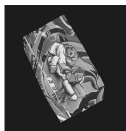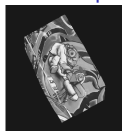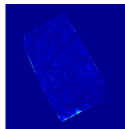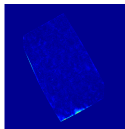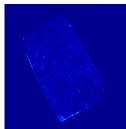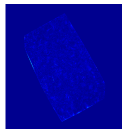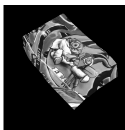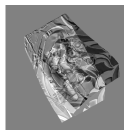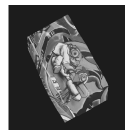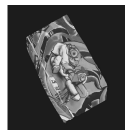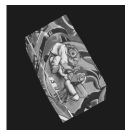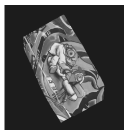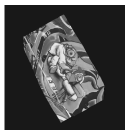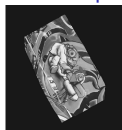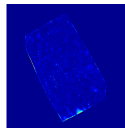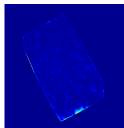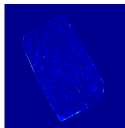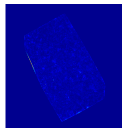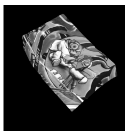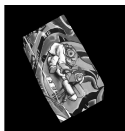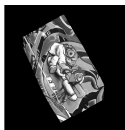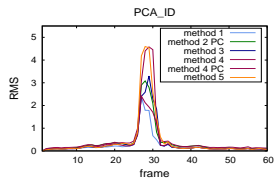# Benchmark Sequence, PCA from ID basis, frame 22

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
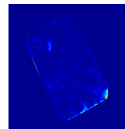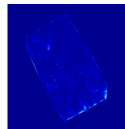
flow differences

Benchmark Sequence, PCA from ID basis, frame 23
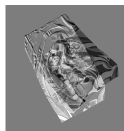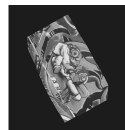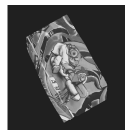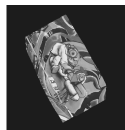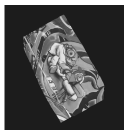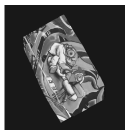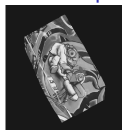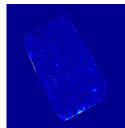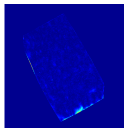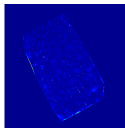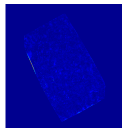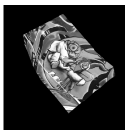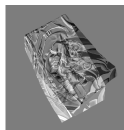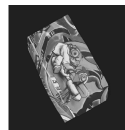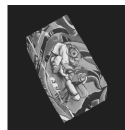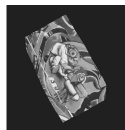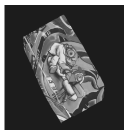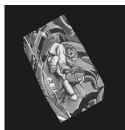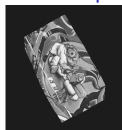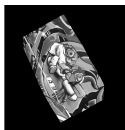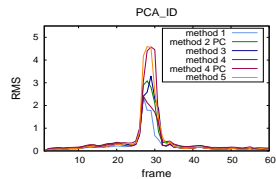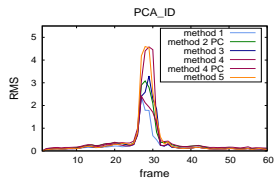
input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
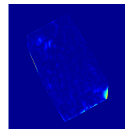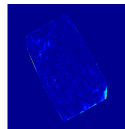
flow differences

Benchmark Sequence, PCA from ID basis, frame 24

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
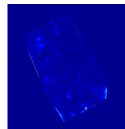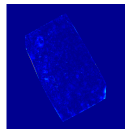
flow differences

Benchmark Sequence, PCA from ID basis, frame 25

input   reference   residual

inverse warps

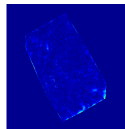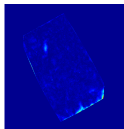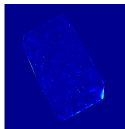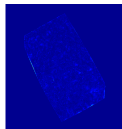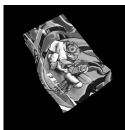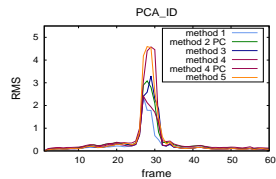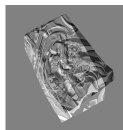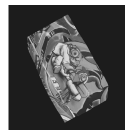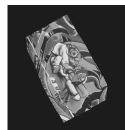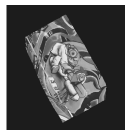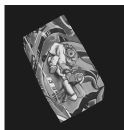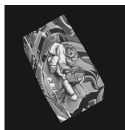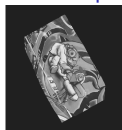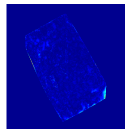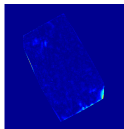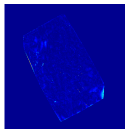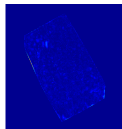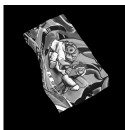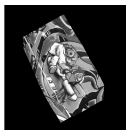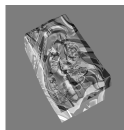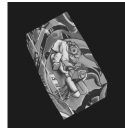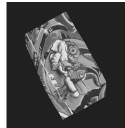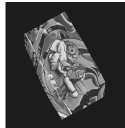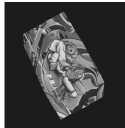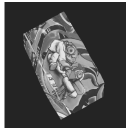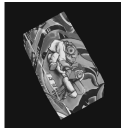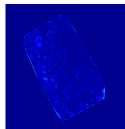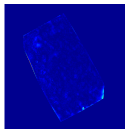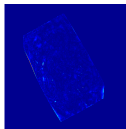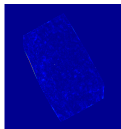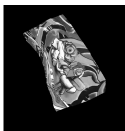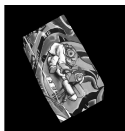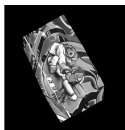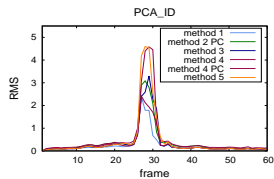method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
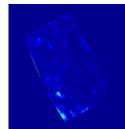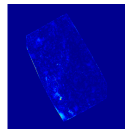
flow differences

Benchmark Sequence, PCA from ID basis, frame 26
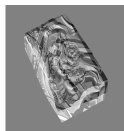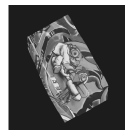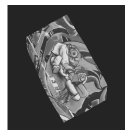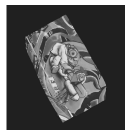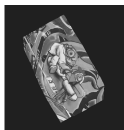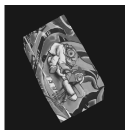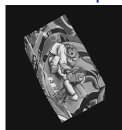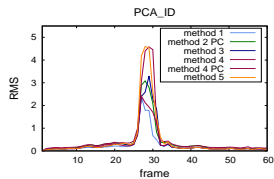
input   reference   residual
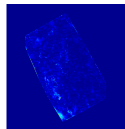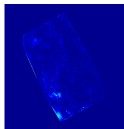

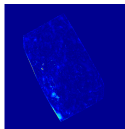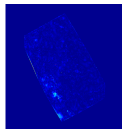inverse warps

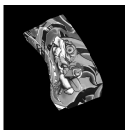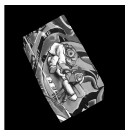method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
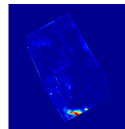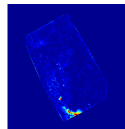
flow differences

Benchmark Sequence, PCA from ID basis, frame 27

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
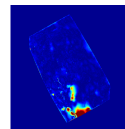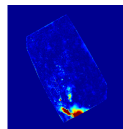
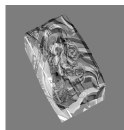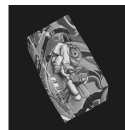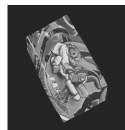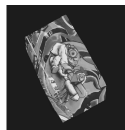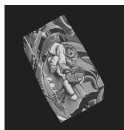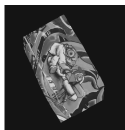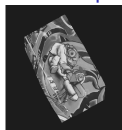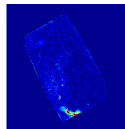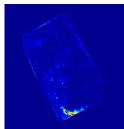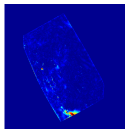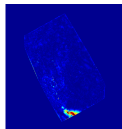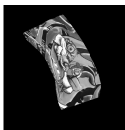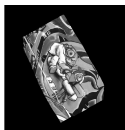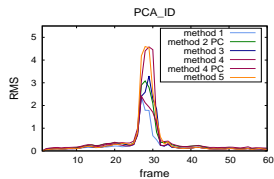flow differences

Benchmark Sequence, PCA from ID basis, frame 28

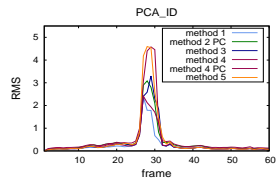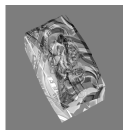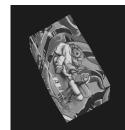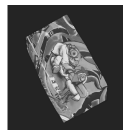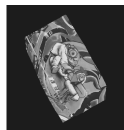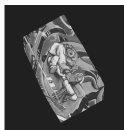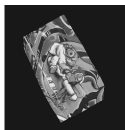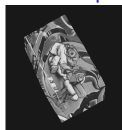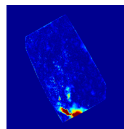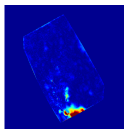input   reference   residual

inverse warps
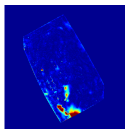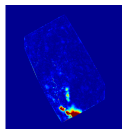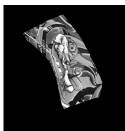

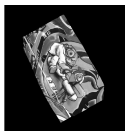method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
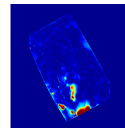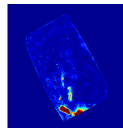
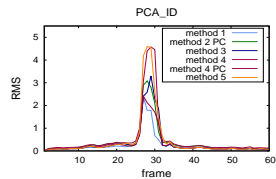flow differences
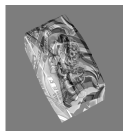
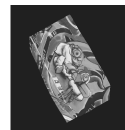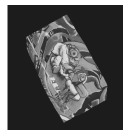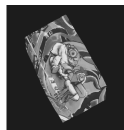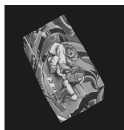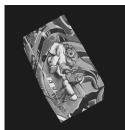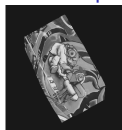# Benchmark Sequence, PCA from ID basis, frame 29
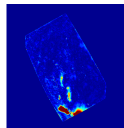
input   reference   residual
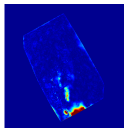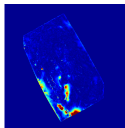

inverse warps
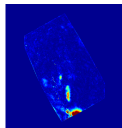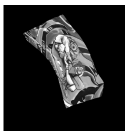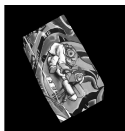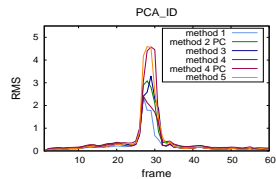

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
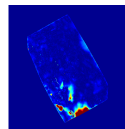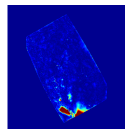
flow differences

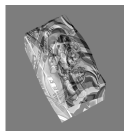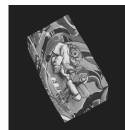# Benchmark Sequence, PCA from ID basis, frame 30

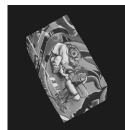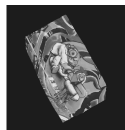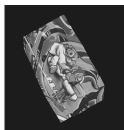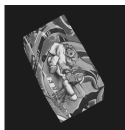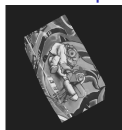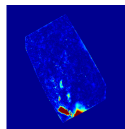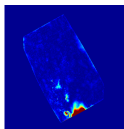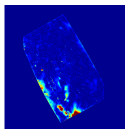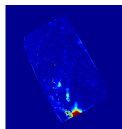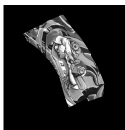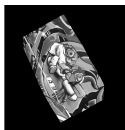input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
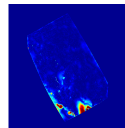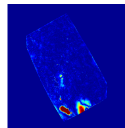
flow differences

Benchmark Sequence, PCA from ID basis, frame 31

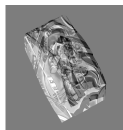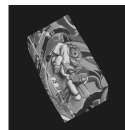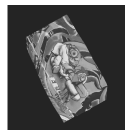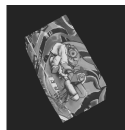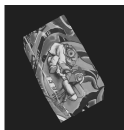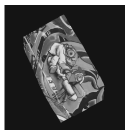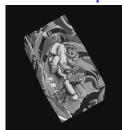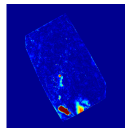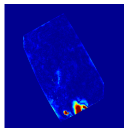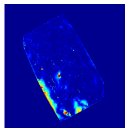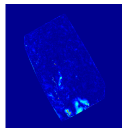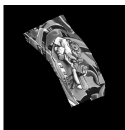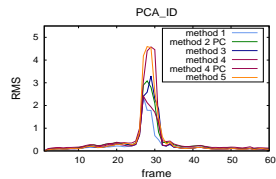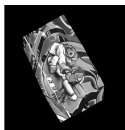input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
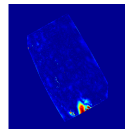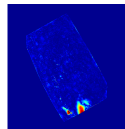
flow differences

Benchmark Sequence, PCA from ID basis, frame 32

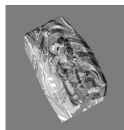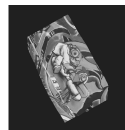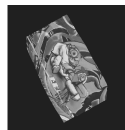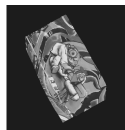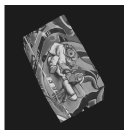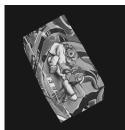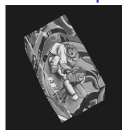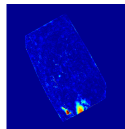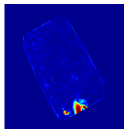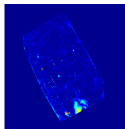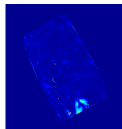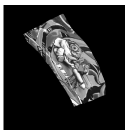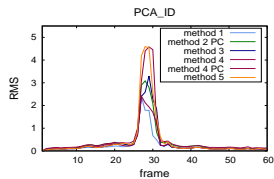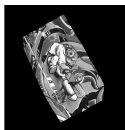input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
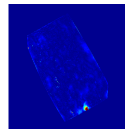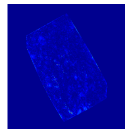
flow differences

Benchmark Sequence, PCA from ID basis, frame 33

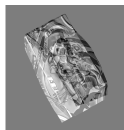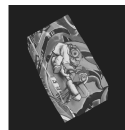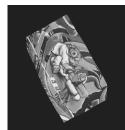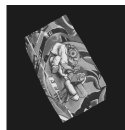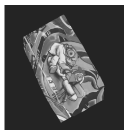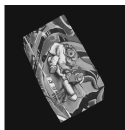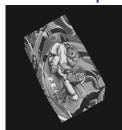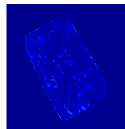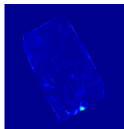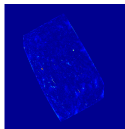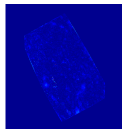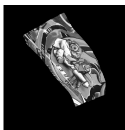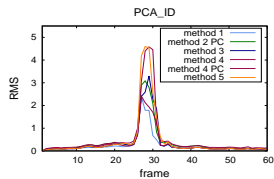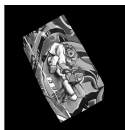input   reference   residual

PCA_ID

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
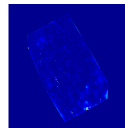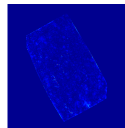
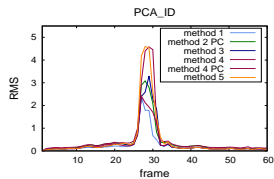flow differences
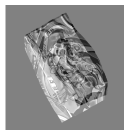
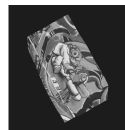# Benchmark Sequence, PCA from ID basis, frame 34

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
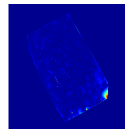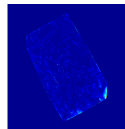
flow differences
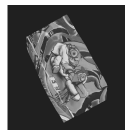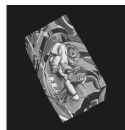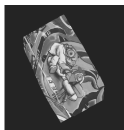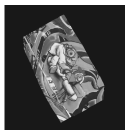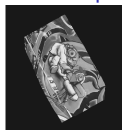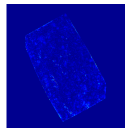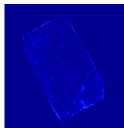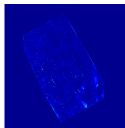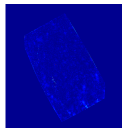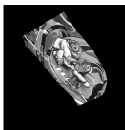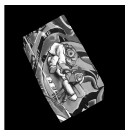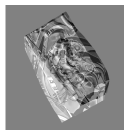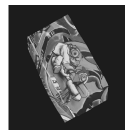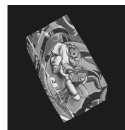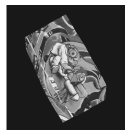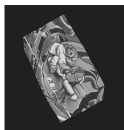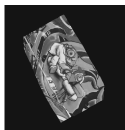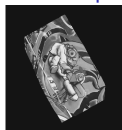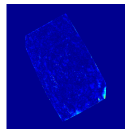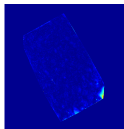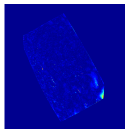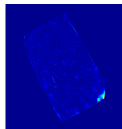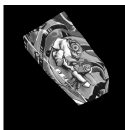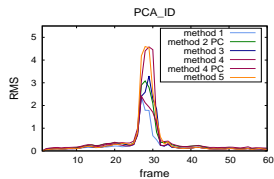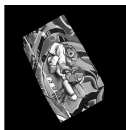
Benchmark Sequence, PCA from ID basis, frame 35

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
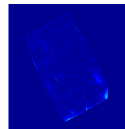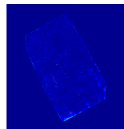
flow differences

Benchmark Sequence, PCA from ID basis, frame 36

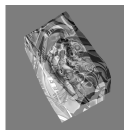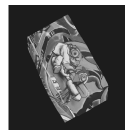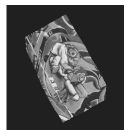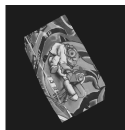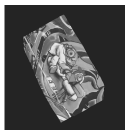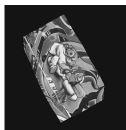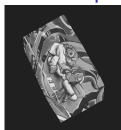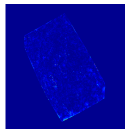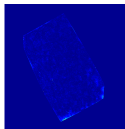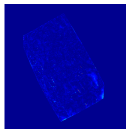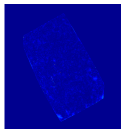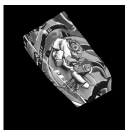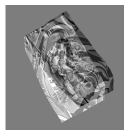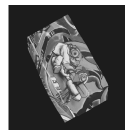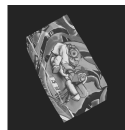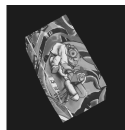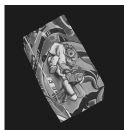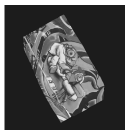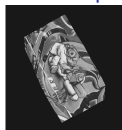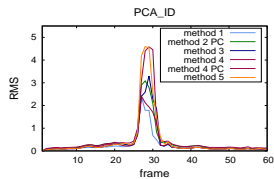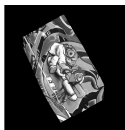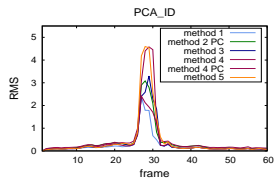input   reference   residual
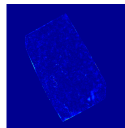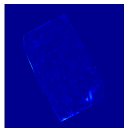

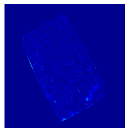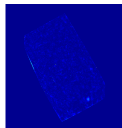inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
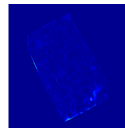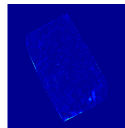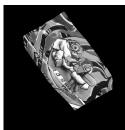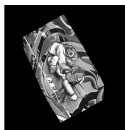

flow differences

Benchmark Sequence, PCA from ID basis, frame 37

input   reference   residual
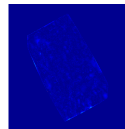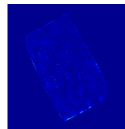
inverse warps

method 1 method 2 pc method 3 method 4 method 4 pc method 5

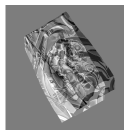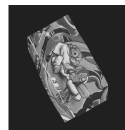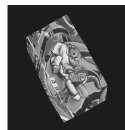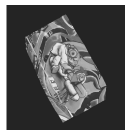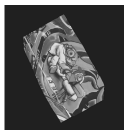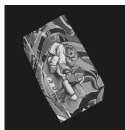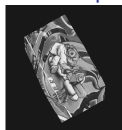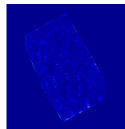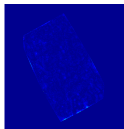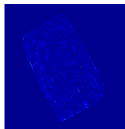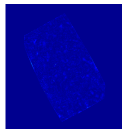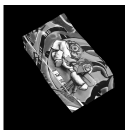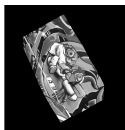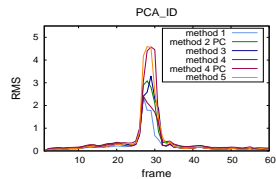flow differences

Benchmark Sequence, PCA from ID basis, frame 38
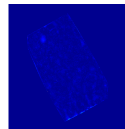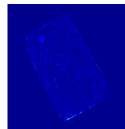
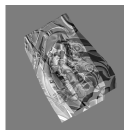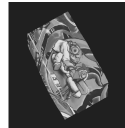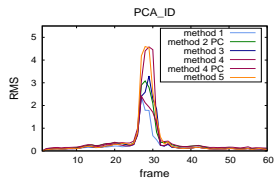# Benchmark Sequence, PCA from ID basis, frame 39

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
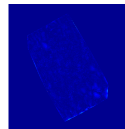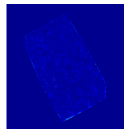
flow differences

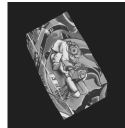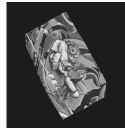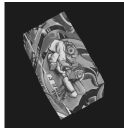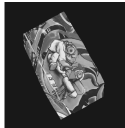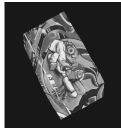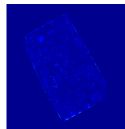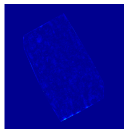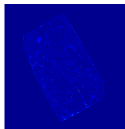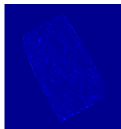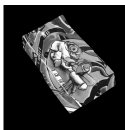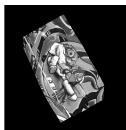# Benchmark Sequence, PCA from ID basis, frame 40

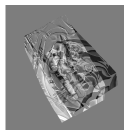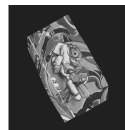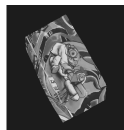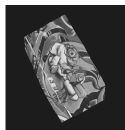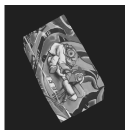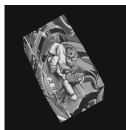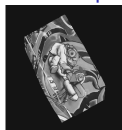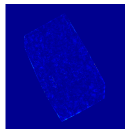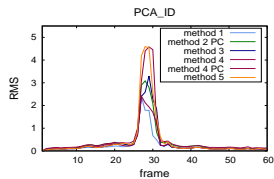input   reference   residual
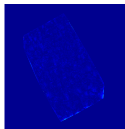

inverse warps
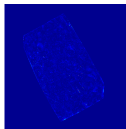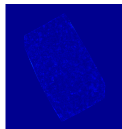

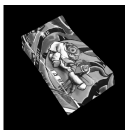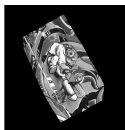method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
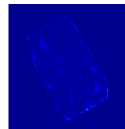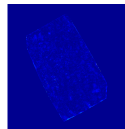
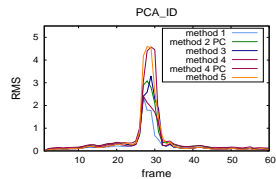flow differences
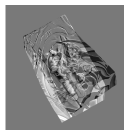
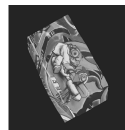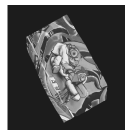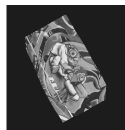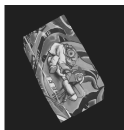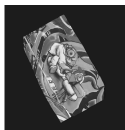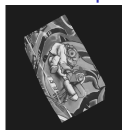# Benchmark Sequence, PCA from ID basis, frame 41

input   reference   residual

inverse warps

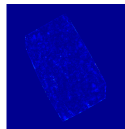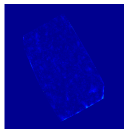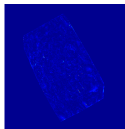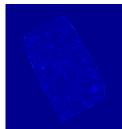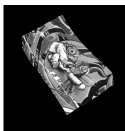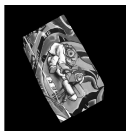method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
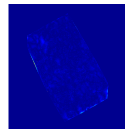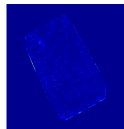
flow differences

Benchmark Sequence, PCA from ID basis, frame 42

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
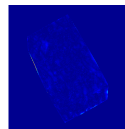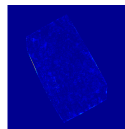
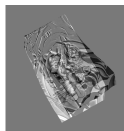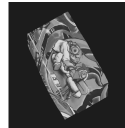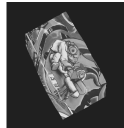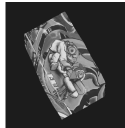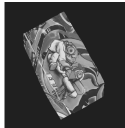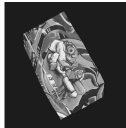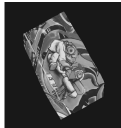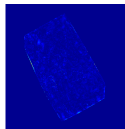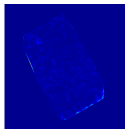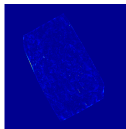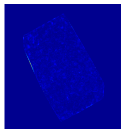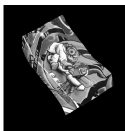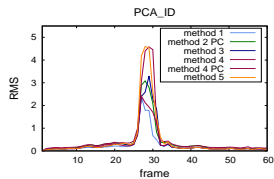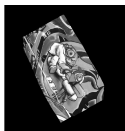flow differences

Benchmark Sequence, PCA from ID basis, frame 43

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
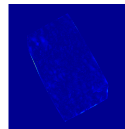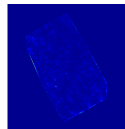
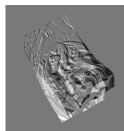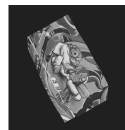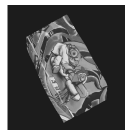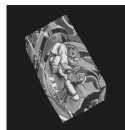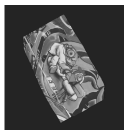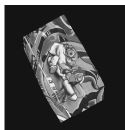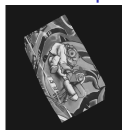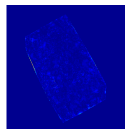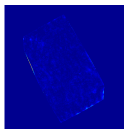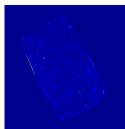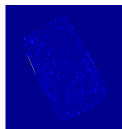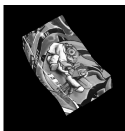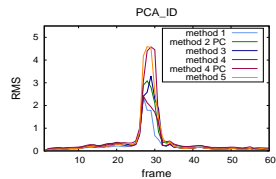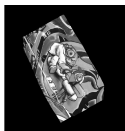flow differences

Benchmark Sequence, PCA from ID basis, frame 44

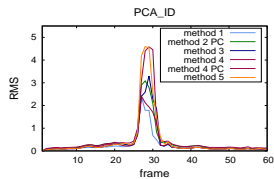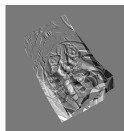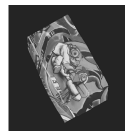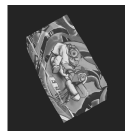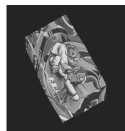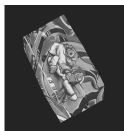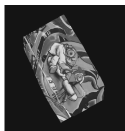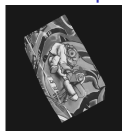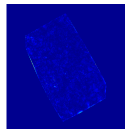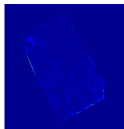input   reference   residual

inverse warps

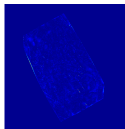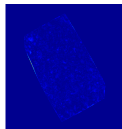method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
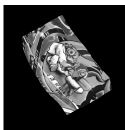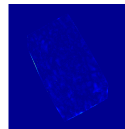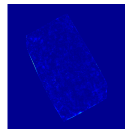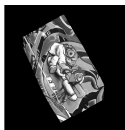

flow differences

Benchmark Sequence, PCA from ID basis, frame 45

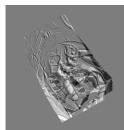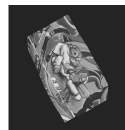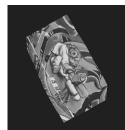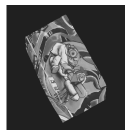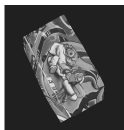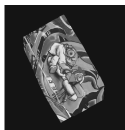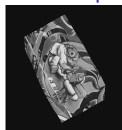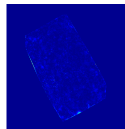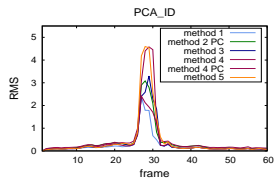input   reference   residual
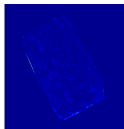

inverse warps

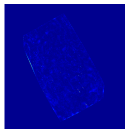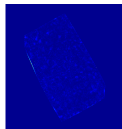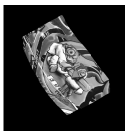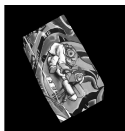method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
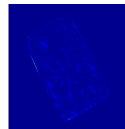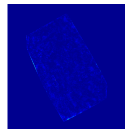
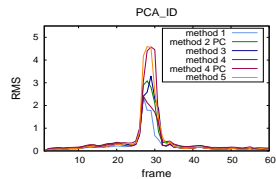flow differences

Benchmark Sequence, PCA from ID basis, frame 46
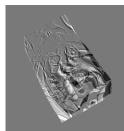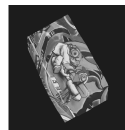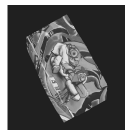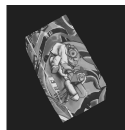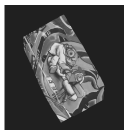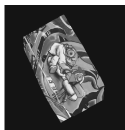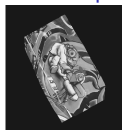
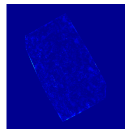

input   reference   residual
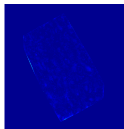
inverse warps
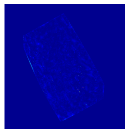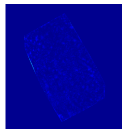
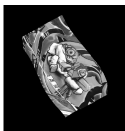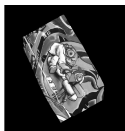method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
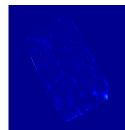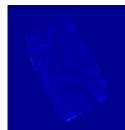
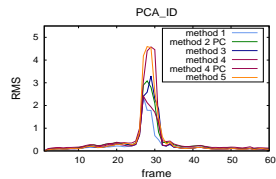flow differences
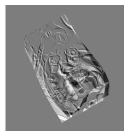
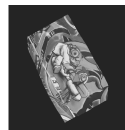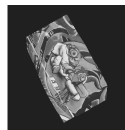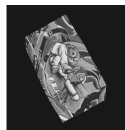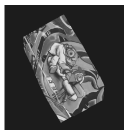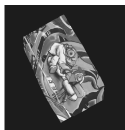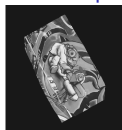# Benchmark Sequence, PCA from ID basis, frame 47
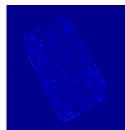
input   reference   residual
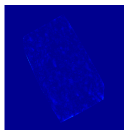

inverse warps
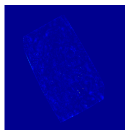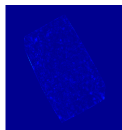

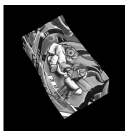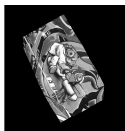method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
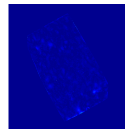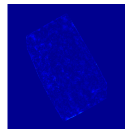
flow differences

Benchmark Sequence, PCA from ID basis, frame 48
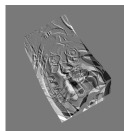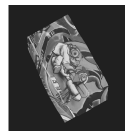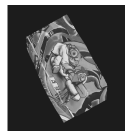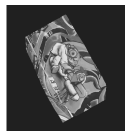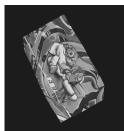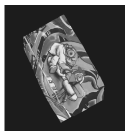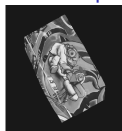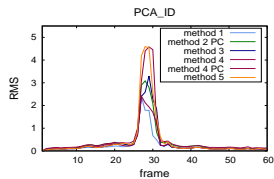
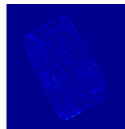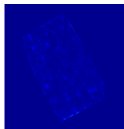input   reference   residual

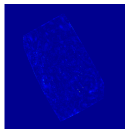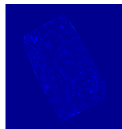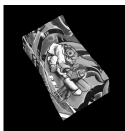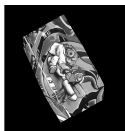inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
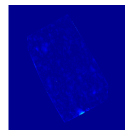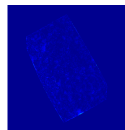
flow differences

Benchmark Sequence, PCA from ID basis, frame 49
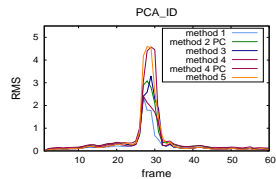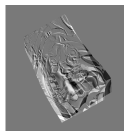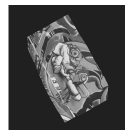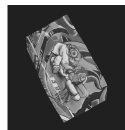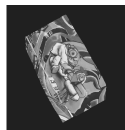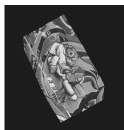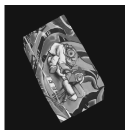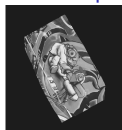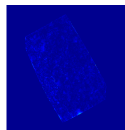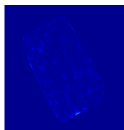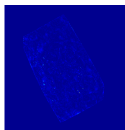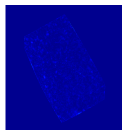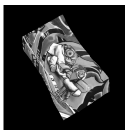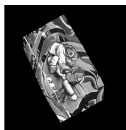
input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
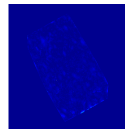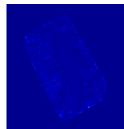
flow differences

Benchmark Sequence, PCA from ID basis, frame 50
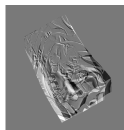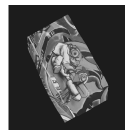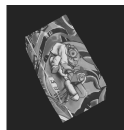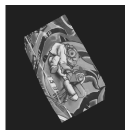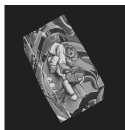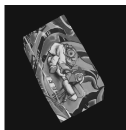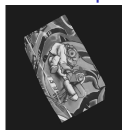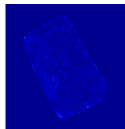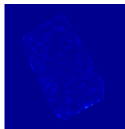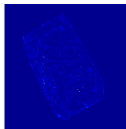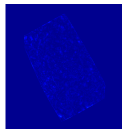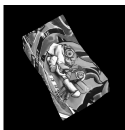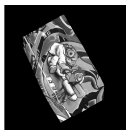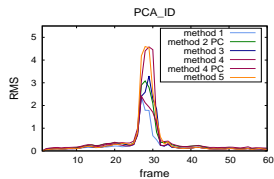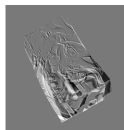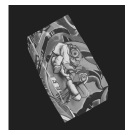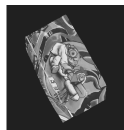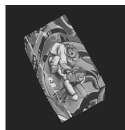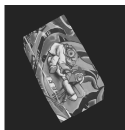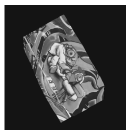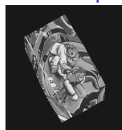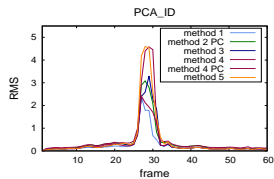
input   reference   residual

inverse warps

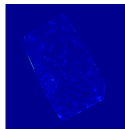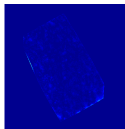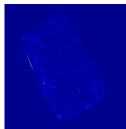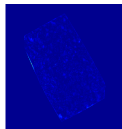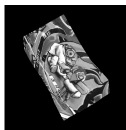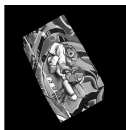method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
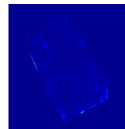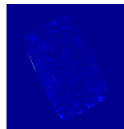
flow differences

Benchmark Sequence, PCA from ID basis, frame 51

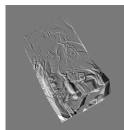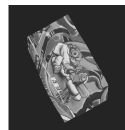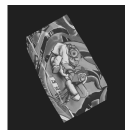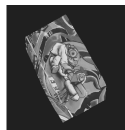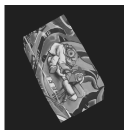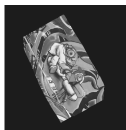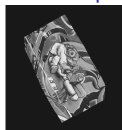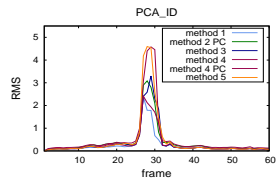input   reference   residual
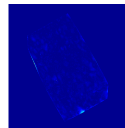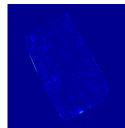
inverse warps

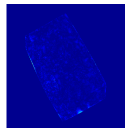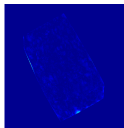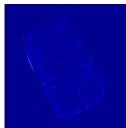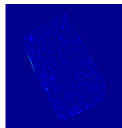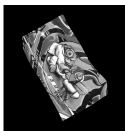method 1   method 2 pc   method 3   method 4   method 4 pc   method 5

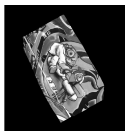
flow differences

Benchmark Sequence, PCA from ID basis, frame 52
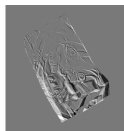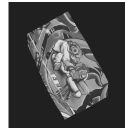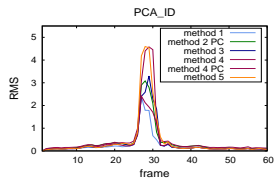
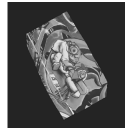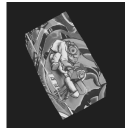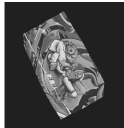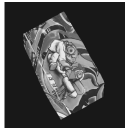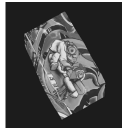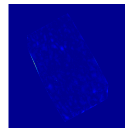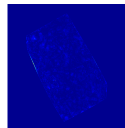# Benchmark Sequence, PCA from ID basis, frame 53

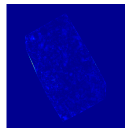input   reference   residual
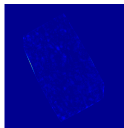

inverse warps
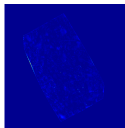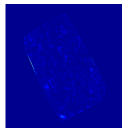

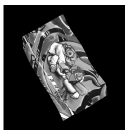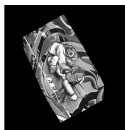method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
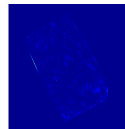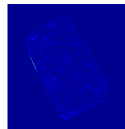
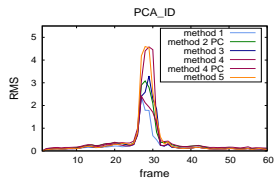flow differences

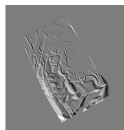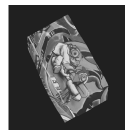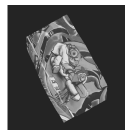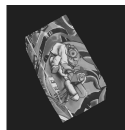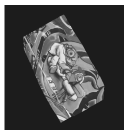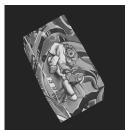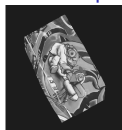# Benchmark Sequence, PCA from ID basis, frame 54

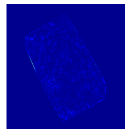input   reference   residual
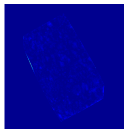

inverse warps
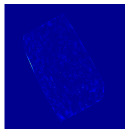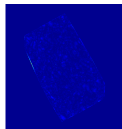

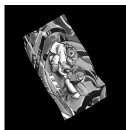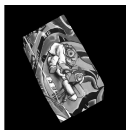method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
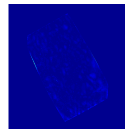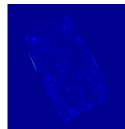
flow differences

Benchmark Sequence, PCA from ID basis, frame 55

input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
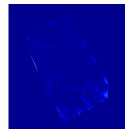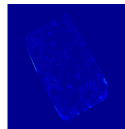
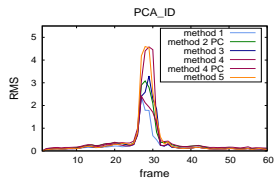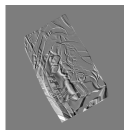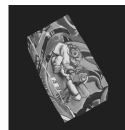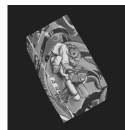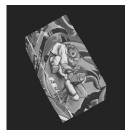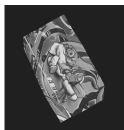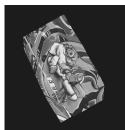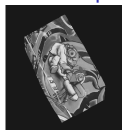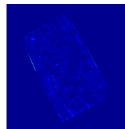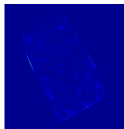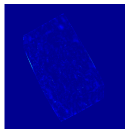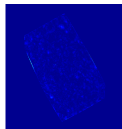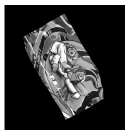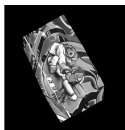flow differences

Benchmark Sequence, PCA from ID basis, frame 56

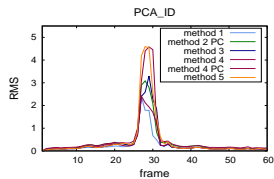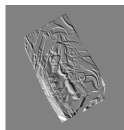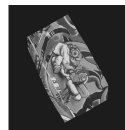input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
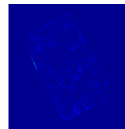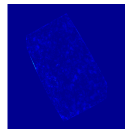
flow differences
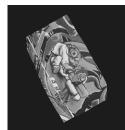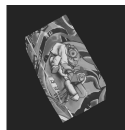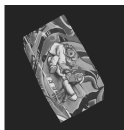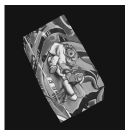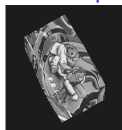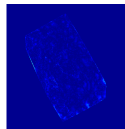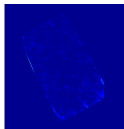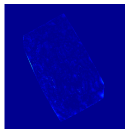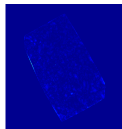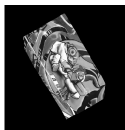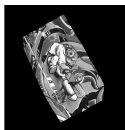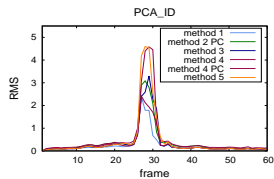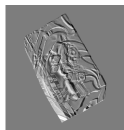
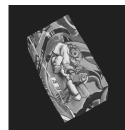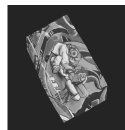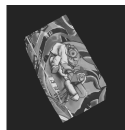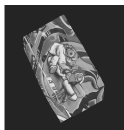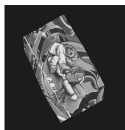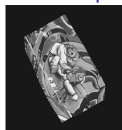# Benchmark Sequence, PCA from ID basis, frame 57
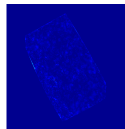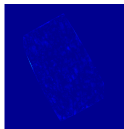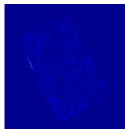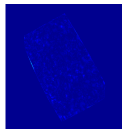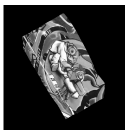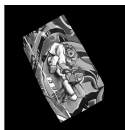
input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
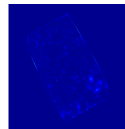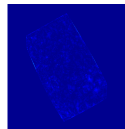
flow differences

Benchmark Sequence, PCA from ID basis, frame 58

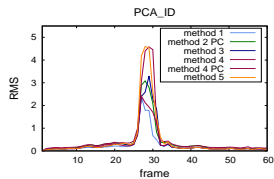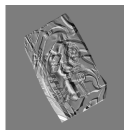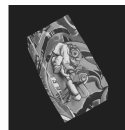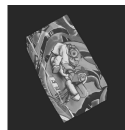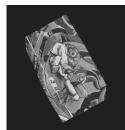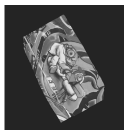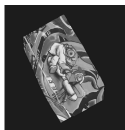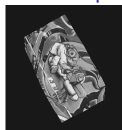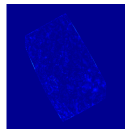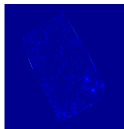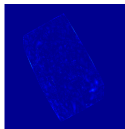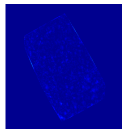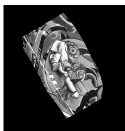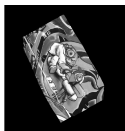input   reference   residual

inverse warps

method 1   method 2 pc   method 3   method 4   method 4 pc   method 5
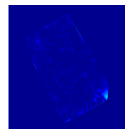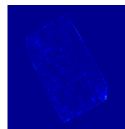
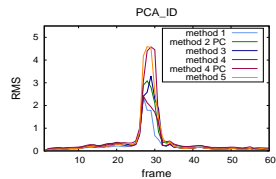flow differences
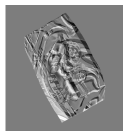
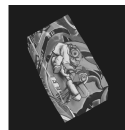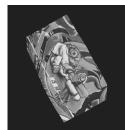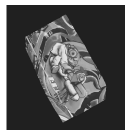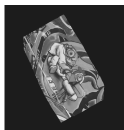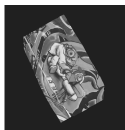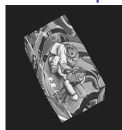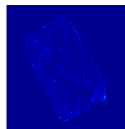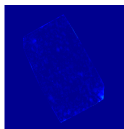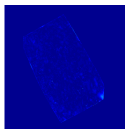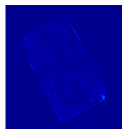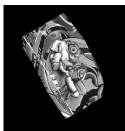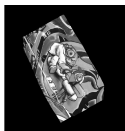# Benchmark Sequence, PCA from ID basis, frame 59

input   reference   residual

inverse warps

method 1 method 2 pc method 3 method 4 method 4 pc method 5
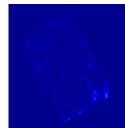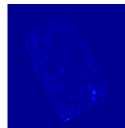
flow differences

Benchmark Sequence, PCA from ID basis, frame 60

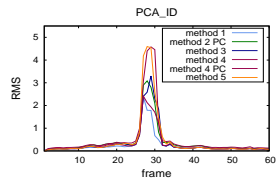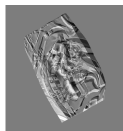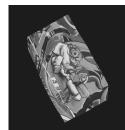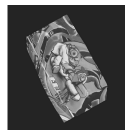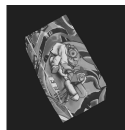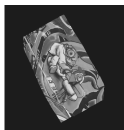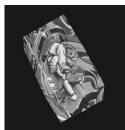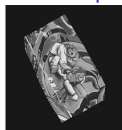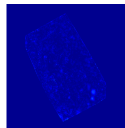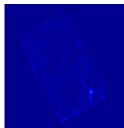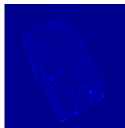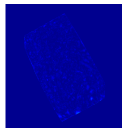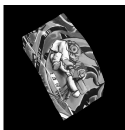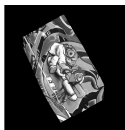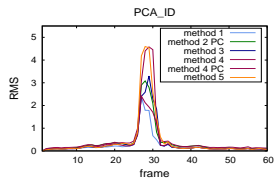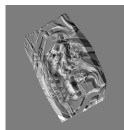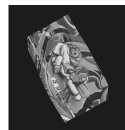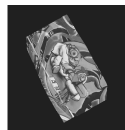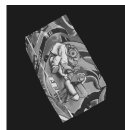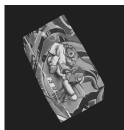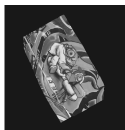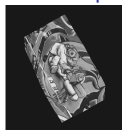input   reference   residual

inverse warps

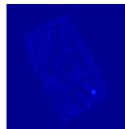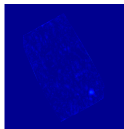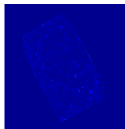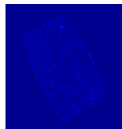method 1   method 2 pc   method 3   method 4   method 4 pc   method 5

flow differences