Basic Figures
June 14, 2014

egb1.Leaf_11.sub_tree1.n2048.eps
egb1.Leaf_11.sub_tree2.n2048.eps
egb2.Leaf_11.circle_ang.n2048.eps
egb3.Leaf_11.line_ang.i0.n2048.eps
egb4.Leaf_11.quantization.n2048.eps

egb1.All_11.sub_tree1.n4095.eps
egb1.All_11.sub_tree2.n4095.eps
egb1.All_11.sub_tree3.n4095.eps
egb2.All_11.circle_ang.n4095.eps
egb3.All_11.line_ang.i0.n4095.eps
egb4.All_11.quantization.n4095.eps
Subtree plot of a level 5 nodes (block index view) (Leaf_11 n2048)

'angle1.dat' using 1:2:3:4

Subtree plot of a level 5 nodes (offset index view) (Leaf_11 n2048)

'angle2.dat' using 1:2:3:4

Circular angle vectors by the offset in a block (Leaf_11 n2048)

'angle.dat' using 1:2:3:4

Quantization Effect (Leaf_11 n2048)

Quantized Angles

Subtree plot of a level 5 nodes (block index view) (Leaf_11 n2048)

'angle1.dat' using 1:2:3:4

Subtree plot of a level 5 nodes (offset index view) (Leaf_11 n2048)

'angle2.dat' using 1:2:3:4

Subtree plot of a level 5 nodes (offset index view) (Leaf_11 n2048)

'angle3.dat' using 1:2:3:4

Quantization Effect (Leaf_11 n2048)

Quantized Angles

Linear angles showing jitter (Leaf_11 n2048)

'angle.dat' using 1:2:3:4

Quantization Effect (Leaf_11 n2048)

Quantized Angles

Subtree plot of a level 5 nodes (block index view) (Leaf_11 n2048)

'angle1.dat' using 1:2:3:4

Subtree plot of a level 5 nodes (offset index view) (Leaf_11 n2048)

'angle2.dat' using 1:2:3:4

Subtree plot of a level 5 nodes (offset index view) (Leaf_11 n2048)

'angle3.dat' using 1:2:3:4

Quantization Effect (Leaf_11 n2048)

Quantized Angles
Circular angle vectors by the offset in a block (All_11 n4095) 

Linear angle vectors showing jitter (All_11 n4095) 

Quantization Effect (All_11 n4095)
Circular angle vectors by the offset in a block (All_11 n4095)

Linear angle vectors showing jitter (All_11 n4095)

Quantization Effect (All_11 n4095)
Leaf case

gsize = 1 << m \quad (2^m)

leaves = 1 << n\text{lters}
= 2^{n\text{lters}}

leaves / gsize
\[ \text{gsize} = 1 \ll m \quad (2^m) \]

\[ \text{leaves} = 1 \ll n\text{lters} \quad = 2^n\text{lters} \]
block_view - leaf
block_view - all

offset_view - leaf
offset_view - all

ang_tree - leaf
ang_tree - all

all angles in the interval not just the descendant and ancestor related angles
Leaf Node Plot

ang_tree : leaf nodes

common ancestor

Leaf : array A contains only leaf nodes

plot_ancestors : leaf nodes
all the angles in this range : A[m]

plot_ancestors : all nodes

plot_angle_tree

plot_subtree
plot_ancestors
Ancestor plot of a level 5 nodes (Leaf_11 n2048)

-9.93726, 2.46403