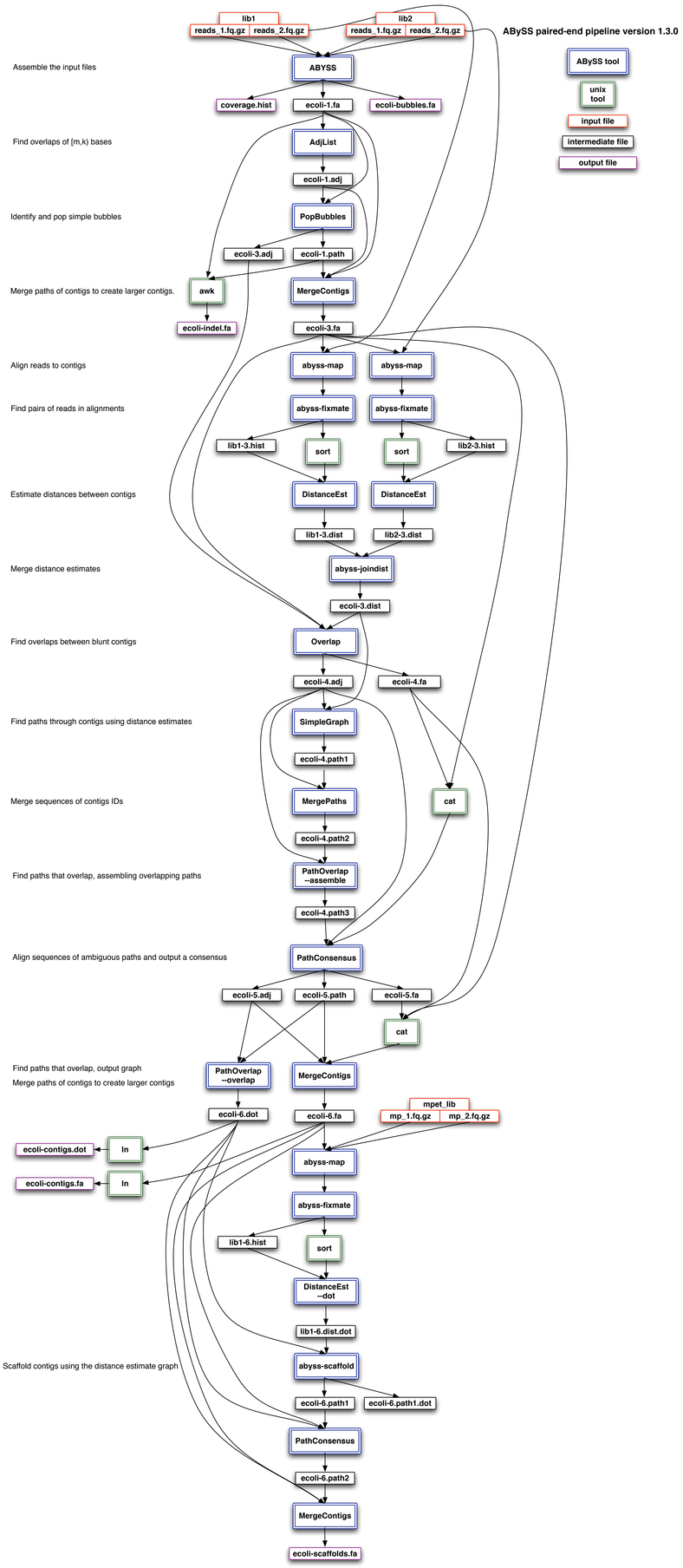
ABySS paired-end pipeline version 1.3.0
ABySS tool
unix tool
input file
intermediate file
output file
lib1
reads_1.fq.gz
reads_2.fq.gz
lib2
reads_1.fq.gz
reads_2.fq.gz
Assemble the input files
ABYSS
coverage.hist
ecoli-1.fa
ecoli-bubbles.fa
Find overlaps of [m,k] bases
AdjList
ecoli-1.adj
Identify and pop simple bubbles
PopBubbles
ecoli-3.adj
ecoli-1.path
Merge paths of contigs to create larger contigs.
awk
MergeContigs
ecoli-indel.fa
ecoli-3.fa
Align reads to contigs
abyss-map
abyss-map
Find pairs of reads in alignments
abyss-fixmate
abyss-fixmate
lib1-3.hist
sort
sort
lib2-3.hist
Estimate distances between contigs
DistanceEst
DistanceEst
lib1-3.dist
lib2-3.dist
Merge distance estimates
abyss-joindist
ecoli-3.dist
Find overlaps between blunt contigs
Overlap
ecoli-4.adj
ecoli-4.fa
Find paths through contigs using distance estimates
SimpleGraph
ecoli-4.path1
Merge sequences of contigs IDs
MergePaths
cat
ecoli-4.path2
Find paths that overlap, assembling overlapping paths
PathOverlap --assemble
ecoli-4.path3
Align sequences of ambiguous paths and output a consensus
PathConsensus
ecoli-5.adj
ecoli-5.path
ecoli-5.fa
cat
Find paths that overlap, output graph
PathOverlap --overlap
Merge paths of contigs to create larger contigs
MergeContigs
ecoli-6.dot
ecoli-6.fa
mpet_lib
mp_1.fq.gz
mp_2.fq.gz
ln
ecoli-contigs.dot
ln
ecoli-contigs.fa
abyss-map
abyss-fixmate
lib1-6.hist
sort
DistanceEst --dot
lib1-6.dist.dot
Scaffold contigs using the distance estimate graph
abyss-scaffold
ecoli-6.path1
ecoli-6.path1.dot
PathConsensus
ecoli-6.path2
MergeContigs
ecoli-scaffolds.fa