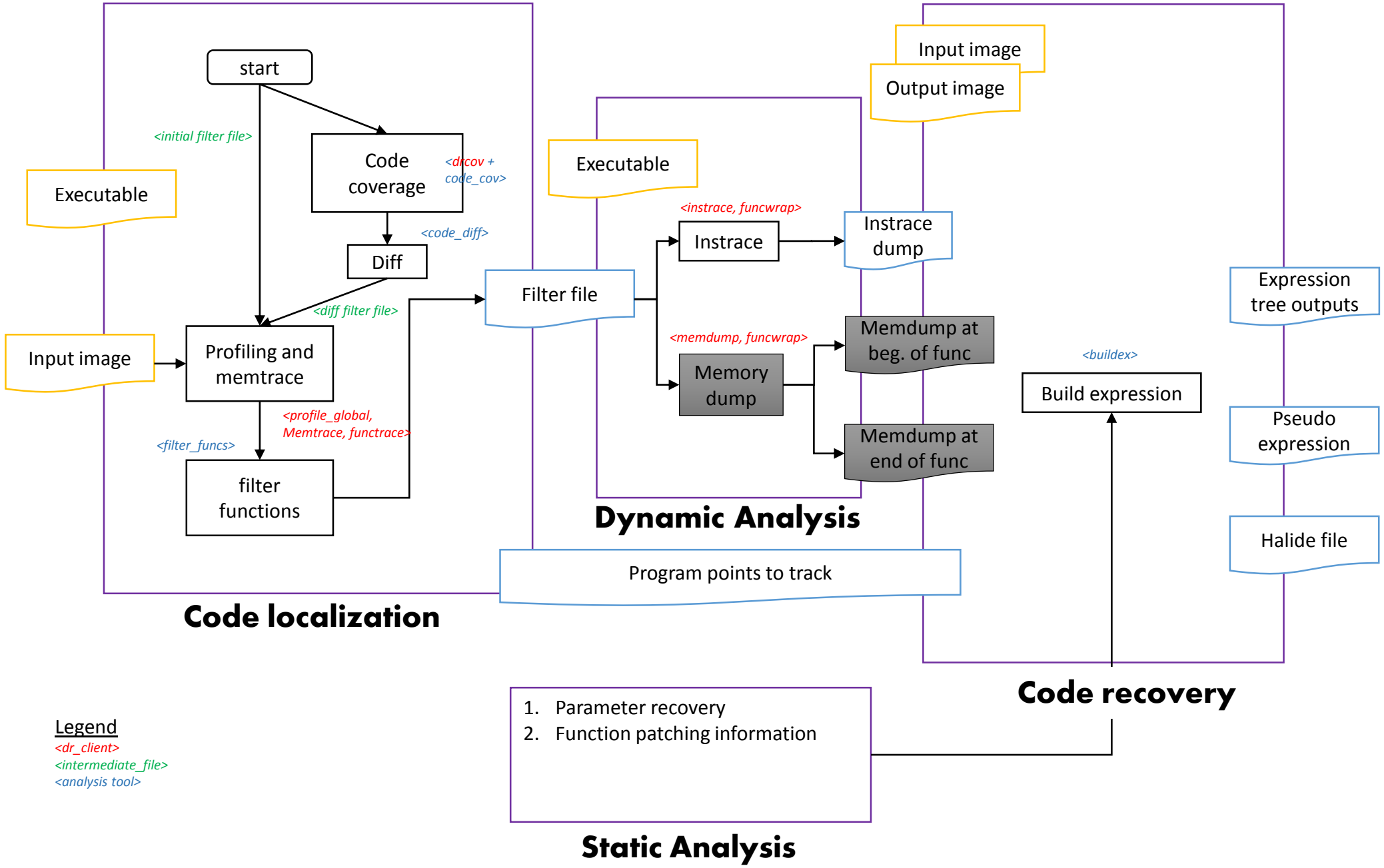
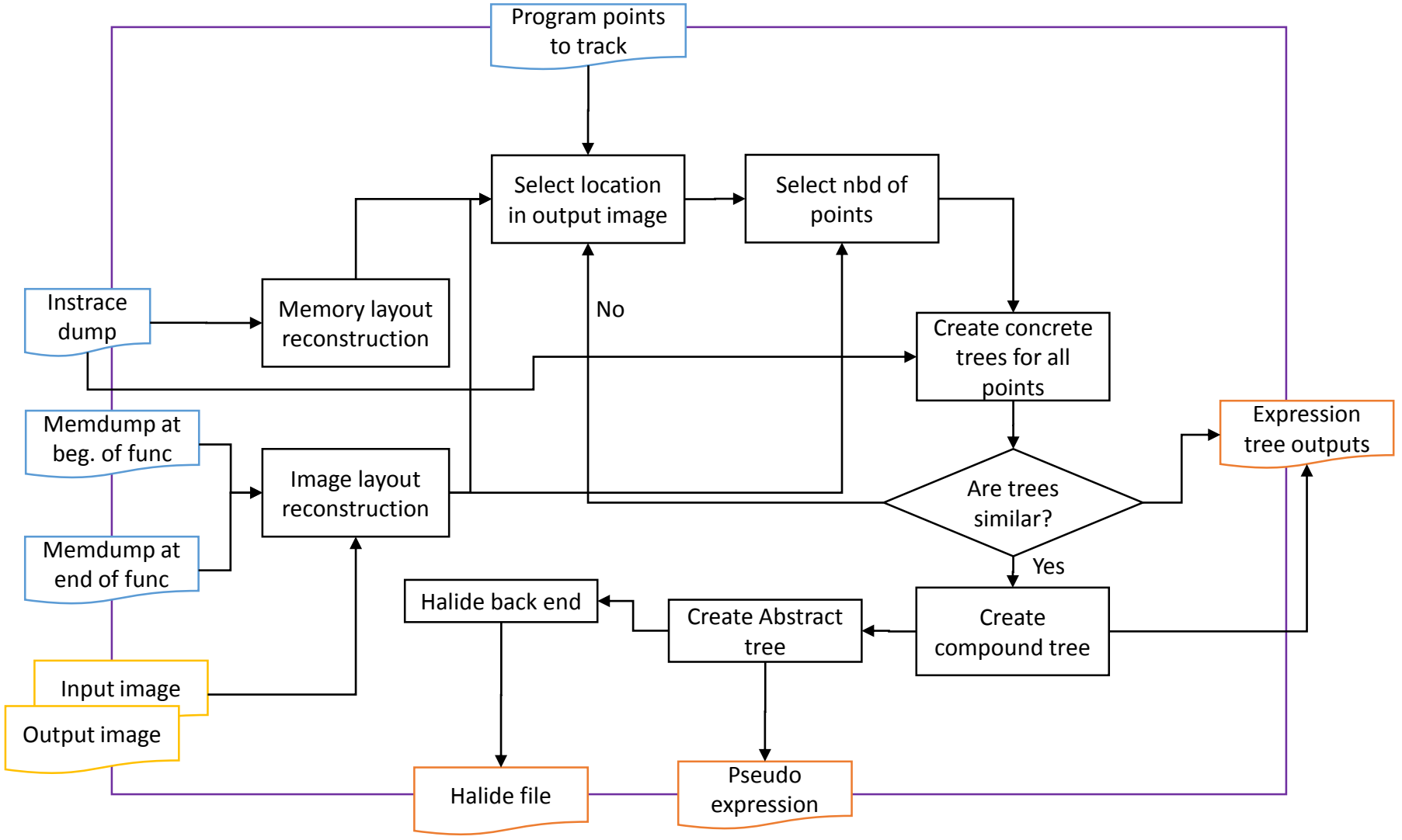
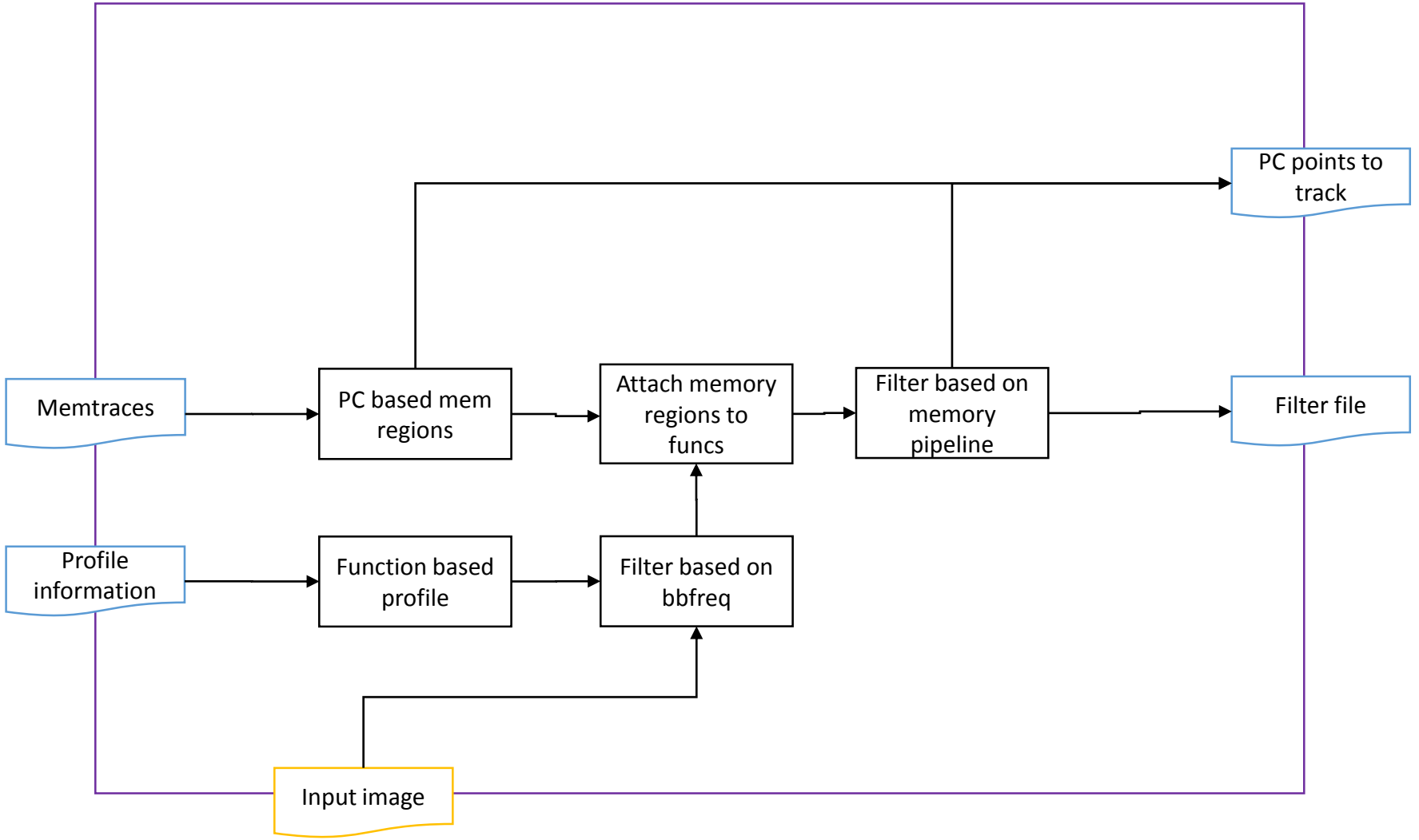

start
<initial filter file>
Code coverage
<drcov + code_cov>
Executable
<code_diff>
Diff
<diff filter file>
Input image
Profiling and memtrace
<profile_global, Memtrace, functrace>
<filter_funcs>
filter functions
Code localization
Filter file
Executable
Input image
Output image
<instrace, funcwrap>
Instrace
Instrace dump
<memdump, funcwrap>
Memory dump
Memdump at beg. of func
Memdump at end of func
Dynamic Analysis
Program points to track
<buildex>
Build expression
Expression tree outputs
Pseudo expression
Halide file
Code recovery
1. Parameter recovery
2. Function patching information
Static Analysis
Legend
<dr_client>
<intermediate_file>
<analysis tool>


Program points to track
Select location in output image
Select nbd of points
Instrace dump
Memory layout reconstruction
No
Create concrete trees for all points
Memdump at beg. of func
Image layout reconstruction
Are trees similar?
Expression tree outputs
Memdump at end of func
Yes
Halide back end
Create Abstract tree
Create compound tree
Input image
Output image
Halide file
Pseudo expression

buildex



filter_funcs