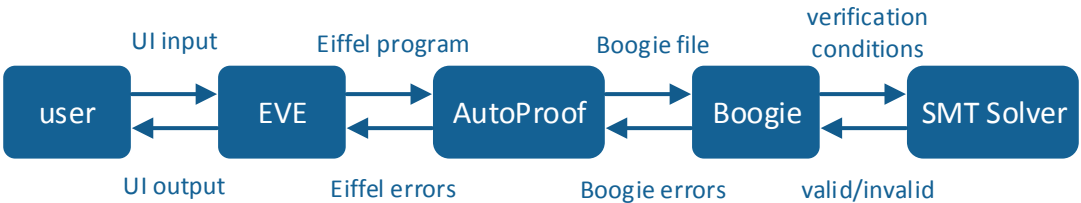
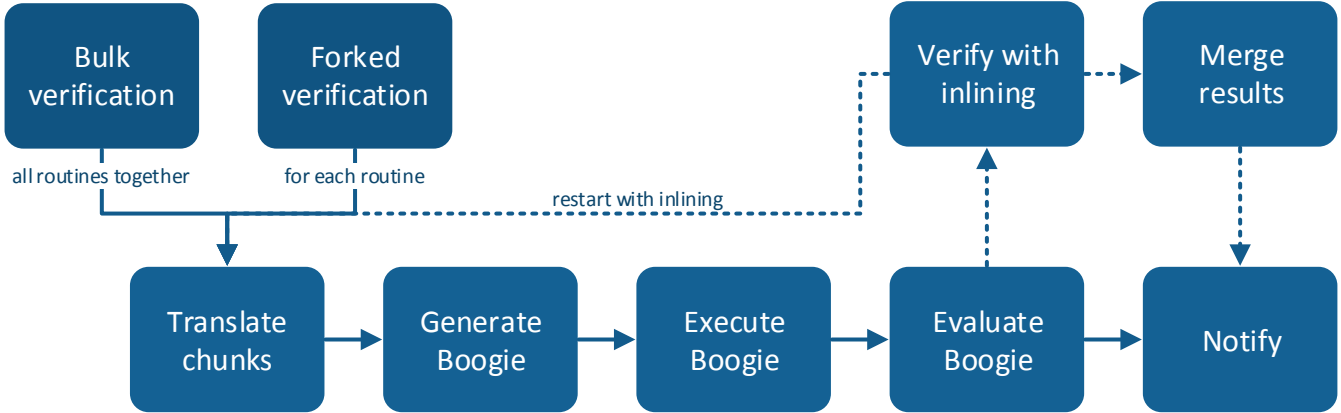
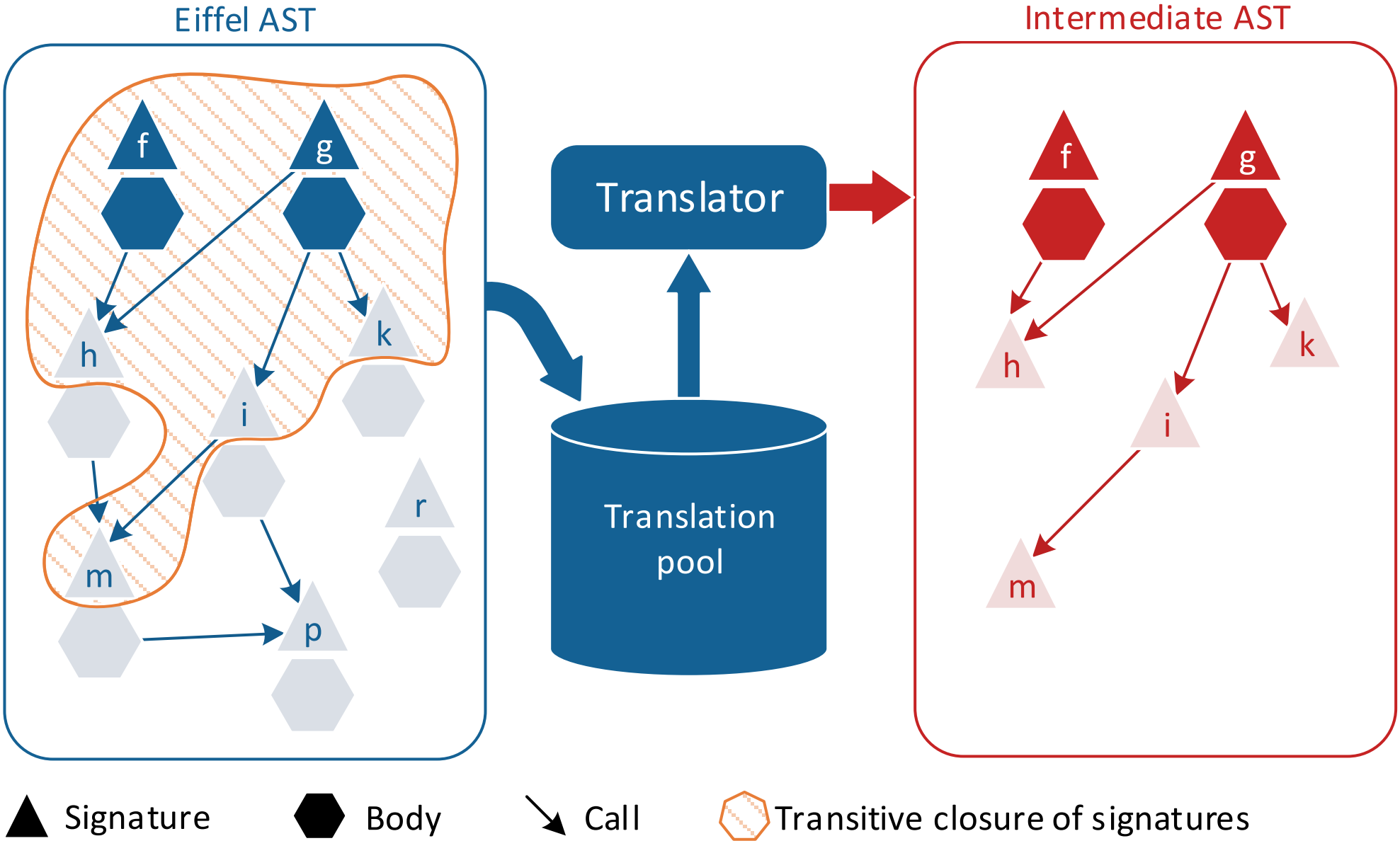
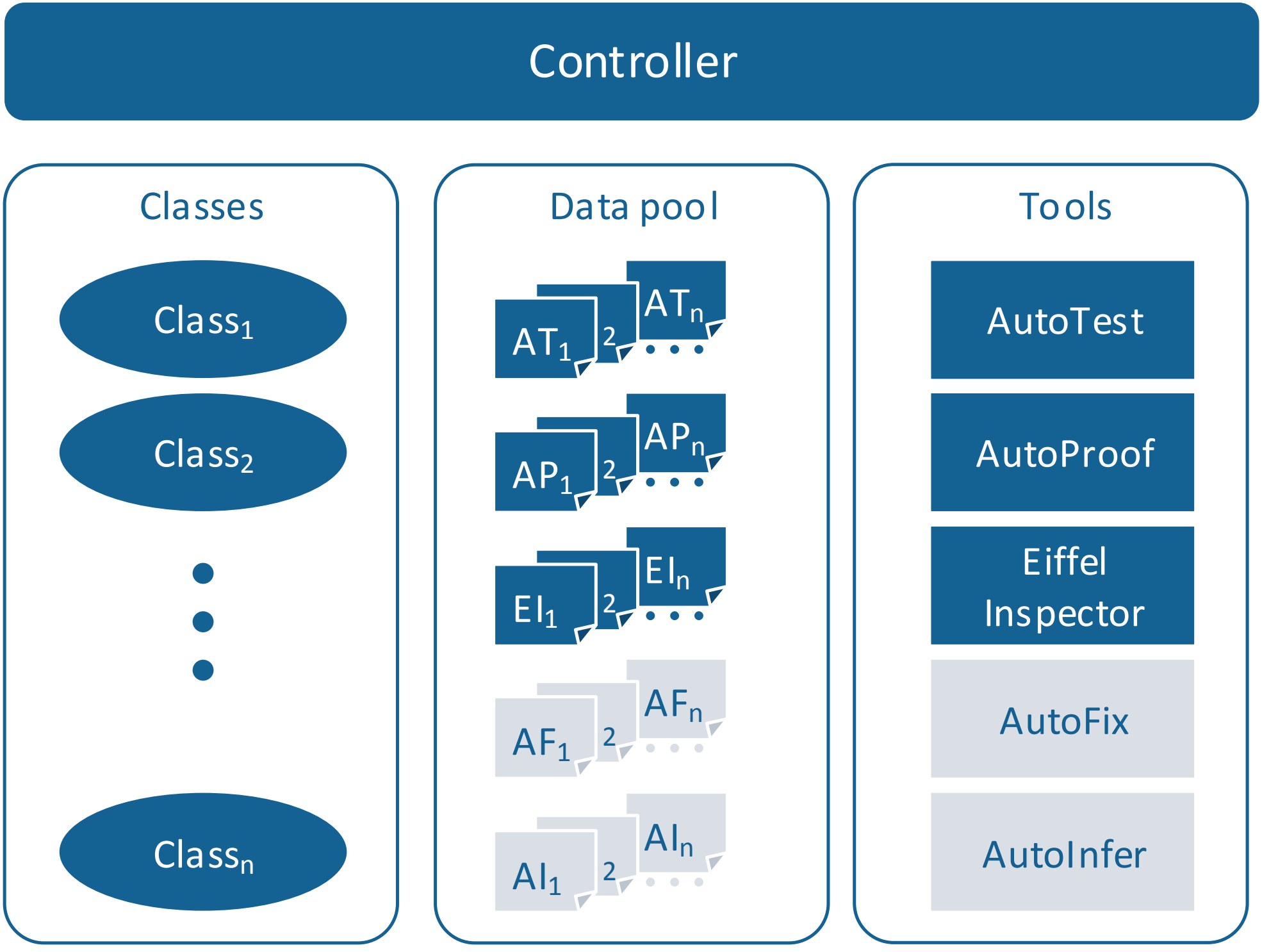
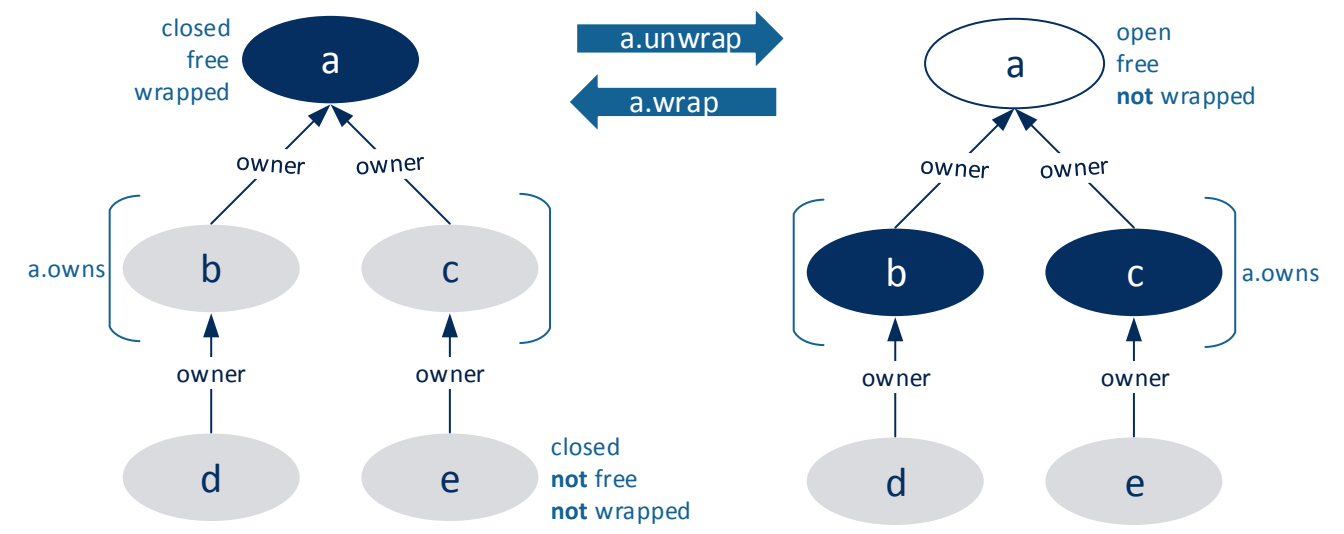

UI input
Eiffel program
Boogie file
verification conditions
user
EVE
AutoProof
Boogie
SMT Solver
UI output
Eiffel errors
Boogie errors
valid/invalid


Bulk verification
Forked verification
Verify with inlining
Merge results
all routines together
for each routine
restart with inlining
Translate chunks
Generate Boogie
Execute Boogie
Evaluate Boogie
Notify


Eiffel AST
f
g
h
i
k
m
p
r
Translator
Translation pool
Intermediate AST
f
g
h
i
k
m
Signature
Body
Call
Transitive closure of signatures


Controller
Classes
Class1
Class2
Classn
Data pool
ATn
AT1
2
APn
AP1
2
EIn
EI1
2
AFn
AF1
2
AIn
AI1
2
Tools
AutoTest
AutoProof
Eiffel Inspector
AutoFix
AutoInfer


closed
free
wrapped
a
a.unwrap
a.wrap
owner
owner
a.owns
b
c
owner
owner
d
e
closed
not free
not wrapped
a
open
free
not wrapped
owner
owner
b
c
a.owns
owner
owner
d
e