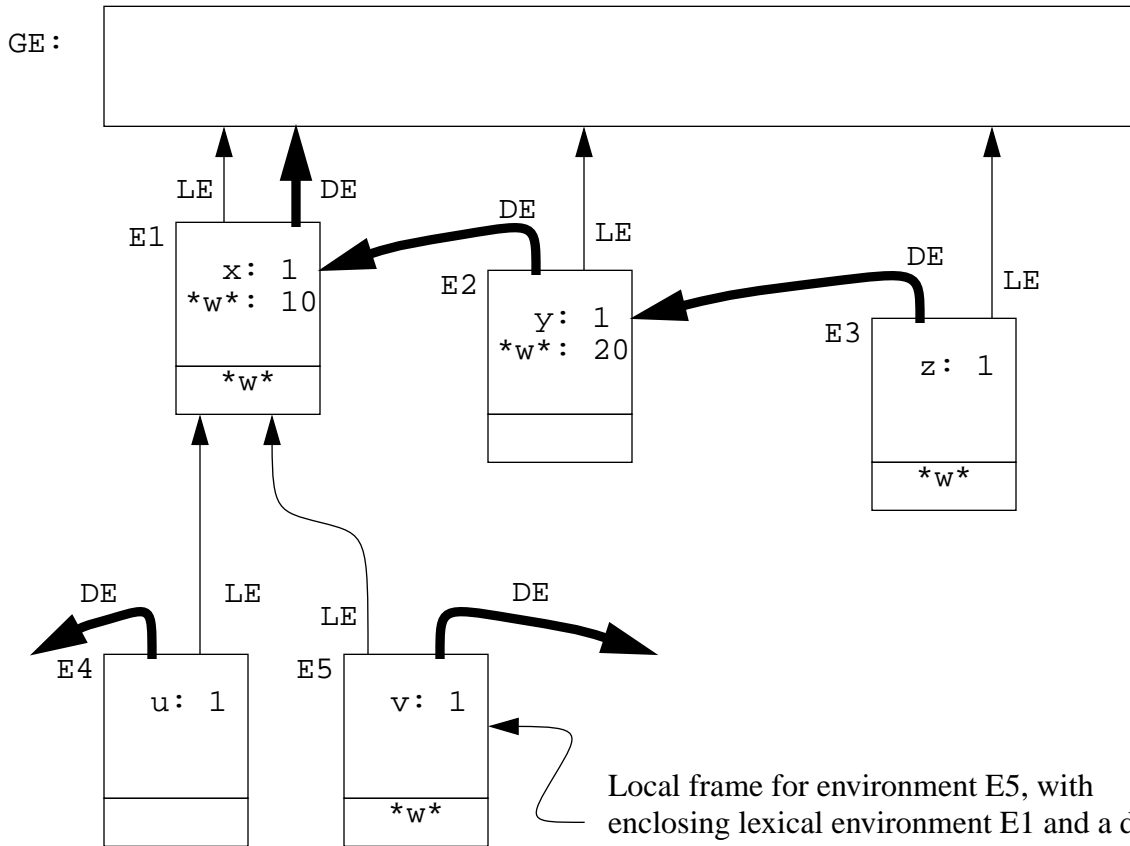


Example of an extended “environment diagram” that supports both lexical and dynamic scoping.



Local frame for environment E5, with enclosing lexical environment E1 and a different enclosing dynamic environment (not shown). Variable `*w*` has been declared to be dynamic in this frame (listed as a “dynamic” variable in the box at the end of the frame).

`*w*` evaluated in E1 ==> 10

`*w*` evaluated in E2 ==> 20 (finds the local lexical variable)

`*w*` evaluated in E3 --> 10 (because `*w*` listed as dynamic in E3, try to find first in E3, then in E2, then in E1 where a dynamic `*w*` is found.)

`*w*` evaluated in E4 ==> 10 (the enclosing `*w*` in E1 is in the lexical scope of E4)

`*w*` evaluated in E5 ==> unbound dynamic variable (no dynamic `*w*` in E5, or in enclosing dynamic environment).