

Excessive Inter-Language Communication (EILC)

Example: VARBASE_PATCH_METHODS.PY is a Python file in PaddlePaddle 2.4.2 that processes dynamic graphs ¹. As shown in Fig. 1, this Python file communicates with 6 native C++ files, including calling 26 native functions and 4 native classes, which results in excessive coupling.

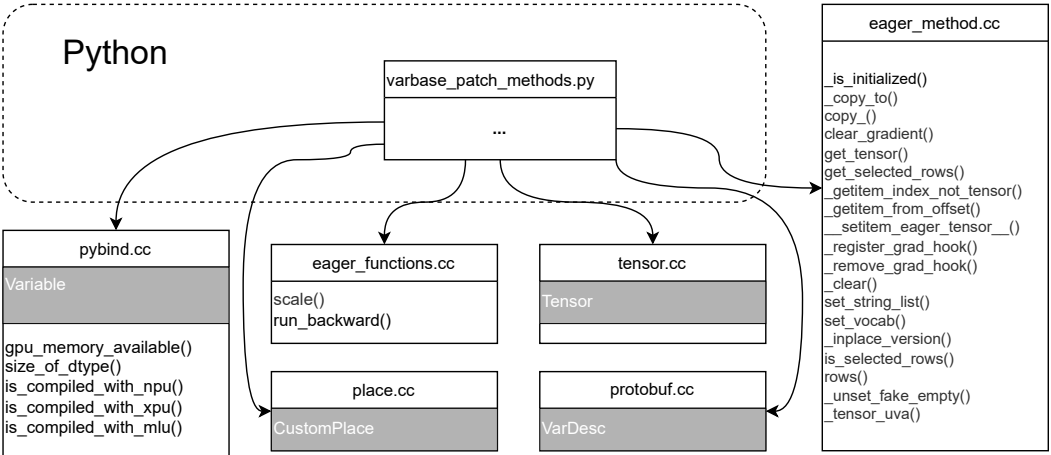


Fig. 1. An example of design smell *Excessive Inter-Language Communication*

¹https://github.com/PaddlePaddle/Paddle/blob/v2.4.2/python/paddle/fluid/dygraph/varbase_patch_methods.py