Safe Manual Memory Management in Cyclone

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Abstract

The goal of the Cyclone project is to investigate how to make a low-level C-like language
safe. Our most difficult challenge has been providing programmers control over mem-
ory management while retaining safety. This paper [1] describes our experience trying to
integrate and use effectively two previously-proposed, safe memory-management mecha-
nisms: statically-scoped regions and tracked pointers. We found that these typing mech-
anisms can be combined to build alternative memory-management abstractions, such as
reference counted objects and arenas with dynamic lifetimes, and thus provide a flexible
basis. Our experience—porting C programs and device drivers, and building new appli-
cations for resource-constrained systems—confirms that experts can use these features to
improve memory footprint and sometimes to improve throughput when used instead of, or
in combination with, conservative garbage collection.

1 Introduction

Low-level languages such as C provide a degree of control over space, time, and
predictability that high-level languages such as Java do not. But the lack of safety
for C has led to many failures and security problems. The goal of our research is
try to bring the "Mohammad of safety" to the "mountain of existing C code."

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