Reference Manual of Impulse System Calls

Lixin Zhang, Leigh Stoller

UUCS-99-018

Department of Computer Science University of Utah Salt Lake City, UT 84112, USA

January 20, 1999

Abstract

This document describes the Impulse system calls. The Impulse system calls allow user applications to use remapping functionality provided by the Impulse Adaptive Memory System to reorganize their data structures without actually moving data around the physical memory. Impulse supports several remapping algorithms. User applications choose the desired remapping algorithms by calling the right Impulse system calls. This note uses detailed examples to illustrate each Impulse system call.

This effort was sponsored in part by the Defense Advanced Research Projects Agency (DARPA) and the Air Force Research Laboratory (AFRL) under agreement number F30602-98-1-0101 and DARPA Order Numbers F393/00-01 and F376/00. The views and conclusions contained herein are those of the authors and should not be interpreted as necessarily representing the official polices or endorsements, either express or implied, of DARPA, AFRL, or the US Government.