

UNIVERSITY OF CALIFORNIA

Los Angeles

Improving the Throughput
of Connectionless Datagram Protocols
over Networks with Limited Bandwidth

A dissertation submitted in partial satisfaction
of the requirements for the degree
Doctor of Philosophy in Computer Science

by

Richard Bert Wales

1993

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1993

ABSTRACT OF THE DISSERTATION

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of Connectionless Datagram Protocols
over Networks with Limited Bandwidth

by

Richard Bert Wales
Doctor of Philosophy in Computer Science
University of California, Los Angeles, 1993
Professor Jack W. Carlyle, Chair

(Abstract omitted for brevity)

The dissertation of Richard Bert Wales is approved.

Robert M. Stevenson

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University of California, Los Angeles

1993

*To my mother . . .
who—among so many other things—
saw to it that I learned to touch-type
while I was still in elementary school*

TABLE OF CONTENTS

1	Introduction	1
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LIST OF FIGURES

LIST OF TABLES

ACKNOWLEDGMENTS

(Acknowledgments omitted for brevity.)

VITA

- 1974–1975 Campus computer center “User Services” programmer and consultant, Stanford Center for Information Processing, Stanford University, Stanford, California.
- 1974–1975 Programmer, Housing Office, Stanford University. Designed a major software system for assigning students to on-campus housing. With some later improvements, it is still in use.
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- 1979–1980 Teaching Assistant, Computer Science Department, UCLA.
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PUBLICATIONS

MADHOUS Reference Manual. Stanford University, Dean of Student Affairs (Residential Education Division), 1978. Technical documentation for the MADHOUS software system used to assign students to on-campus housing.

CHAPTER 1

Introduction

For text, let's use the first words out of the ispell dictionary.

aback abaft abandon abandoned abandoning abandonment abandons abase abased abase-
ment abasements abases abash abashed abashes abashing abasing abate abated abatement
abatements abater abates abating abbe abbey abbey's abbeys abbot abbot's abbots abbre-
viate abbreviated abbreviates abbreviating abbreviation abbreviations abdomen abdomen's
abdomens abdominal abduct abducted abduction abduction's abductions abductor abduc-
tor's abductors abducts abed aberrant aberration aberrations abet abets abetted abetter
abetting abeyance abhor abhorred abhorrent abhorrer abhorring abhors abide abided abides
abiding abilities ability ability's abject abjection abjections abjectly abjectness abjure ab-
jured abjures abjuring ablate ablated ablates ablating ablation ablative ablaze able abler
ablest ablute ably abnormal abnormalities abnormality abnormally aboard abode abode's
abodes abolish abolished abolisher abolishers abolishes abolishing abolishment abolishment's
abolishments abolition abolitionist abolitionists abominable aboriginal aborigine aborigine's
aborigines abort aborted aborting abortion abortion's abortions abortive abortively aborts
abound abounded abounding abounds about above aboveground abrade abraded abrades
abrading abrasion abrasion's abrasions abreaction abreactions abreast abridge abridged abridges
abridging abridgment abroad abrogate abrogated abrogates abrogating abrupt abruptly
abruptness