

**SUMMER INSTITUTE OF LINGUISTICS
PUBLICATIONS IN LINGUISTICS**

Publication Number 69

EDITORS

Desmond C. Derbyshire
*Summer Institute of
Linguistics--Dallas*

Virgil L. Poulter
*University of Texas
at Arlington*

ASSISTANT EDITORS

Alan C. Wares

Iris M. Wares

CONSULTING EDITORS

Doris A. Bartholomew

Robert E. Longacre

Pamela M. Bendor-Samuel

Eugene E. Loos

Robert Dooley

William R. Merrifield

Austin Hale

Kenneth L. Pike

Phyllis Healey

Viola G. Waterhouse

**Affix Positions and Cooccurrences:
The PARADIGM Program**

Joseph E. Grimes

A Publication of

THE SUMMER INSTITUTE OF LINGUISTICS
and

THE UNIVERSITY OF TEXAS AT ARLINGTON

1983

ISBN 0-88312-095-X

Library of Congress Catalog Card No. 83-50293

© 1983 by Summer Institute of Linguistics, Inc.

Copies of this publication and other publications of the
Summer Institute of Linguistics may be obtained from

The Bookstore
Summer Institute of Linguistics
7500 W. Camp Wisdom Road
Dallas, TX 75236

Contents

Preface	vii
---------	-----

PART ONE: MORPHOLOGY

1. Affix Positions	3
Linear order	3
2. Basic Cooccurrences	12
Distinct sets	13
3. Total Cooccurrences	21
Component subgraphs	22

PART TWO: COMPUTATION

4. Interpreting the Printout	31
Positional analysis	31
Distinct sets	36
Component subgraphs	37
5. Preparing the Data	39
Normalization	40
6. Running the Program	46
Normal use	47
Special use	51
How to start	53
7. Test Data	57
Typical correct data	58
Data with hidden sets	58
Order cycles	59
8. Program Listing	62
Intermodule connections	90

Preface

In presenting this work on morphology I acknowledge a substantial debt to my colleagues Ivan Lowe, Robert A. Dooley, and Gary F. Simons, whose incisive critiques have contributed to clearing away the fuzz that seems to collect around discussions of the internal form of words. I also appreciate the time Robert Croese spent in getting me into the complexities of Mapudungu, and his awareness of the problems posed by hidden sets.

Albert Bickford and Alan and Karen Buseman have played parts in developing the PARADIGM program that I am grateful to acknowledge. Alan L. Teubner has helped me clarify the program documentation. The version described is the one whose designation when it appears on the computer screen is Version 2.209, which was released for testing in August of 1982.