

CONTENTS

INTRODUCTION	xv
ABOUT THIS BOOK	xvi
WHAT DOES IT MEAN FOR YOUR CAREER?	xvii
A COUPLE OF THINGS TO MENTION	xviii
CHAPTER 1: The Specifics on Subfiles.	1
WHY USE SUBFILES?.	1
WHY SHOULD YOU CARE?	2
TWO DDS FORMATS ARE BETTER THAN ONE	3
DDS AND RPG WORKING AS ONE	4
OH GOODY! SOME CODE	6
HIP HOP SUBFILES CAN WRAP	15
JUST ADD THE FIELDS	16
SFLFOLD AND SFLDROP	17
FOLD? DROP? WHICH DOES WHICH?	18
NOT JOINED AT THE HIP	18

CONTENTS

SFLFOLD AND SFLDROP WORKING WITH SFLMODE.	19
A LITTLE RPG NEVER HURT ANYONE.	20
A LITTLE WORK GOES A LONG WAY	20
THE LAST WORD ON SFLFOLD AND SFLDROP	20
THE FINE PRINT.	21
SUBFILE TRIVIA FOR THAT SPECIAL MOMENT.	24
SUMMARY AND CODE EXAMPLES	24
CHAPTER 2: A SUBFILE TYPE FOR EVERY OCCASION	31
SELF-EXTENDING SUBFILES	32
ADD SOME OOMPH	38
EVEN MORE OOMPH	42
PAGE-AT-A-TIME SUBFILE	45
PAGING ALTERNATIVES	49
SFLENTER	50
SFLROLVAL	50
HOW TO CHOOSE	51
SUMMARY AND CODE EXAMPLES	53
CHAPTER 3: MODIFYING A SUBFILE (CHANGE IS GOOD)	65
SFLNXTCHG, READC, AND SFLRCDNBR...OH YEAH, CHAIN AND UPDATE, TOO.	66
ADD TO THE FUN WITH ADD CAPABILITY	78
YOU'RE NOW READY FOR MASTER FILE MAINTENANCE.	78
SFLINZ, SFLRNA, AND INPUT SUBFILES	79
The Hard Way	79
The Correct Way	80
SFLCSRPRG AND INPUT SUBFILES	83
SFLINZ, SFLRNA, SFLRCDNBR, AND UPDATE SUBFILES	84
Tying It All Together	85
SUMMARY AND CODE EXAMPLES	92

CHAPTER 4: WINDOW SUBFILES:	
WHO NEEDS A PC TO HAVE SCROLLABLE WINDOWS?	111
SO LITTLE CHANGED, SO MUCH ACCOMPLISHED	113
SFLEND AND THE BAR SCENE	116
BUT WAIT! THERE'S MORE	117
WINDOWS 101	118
THE KEYWORDS	119
WINDOWS 201	120
MORE ON USRRSTDSP AND TWEAKING	121
WHAT PROMPTED YOU TO DISPLAY?	124
RTNCSRLOC AND PROMPTING	125
SELECTION LISTS—A COOL WAY TO RETURN DATA	127
DESIGNING THE SELECTION LIST	128
PROGRAMMING THE SELECTION LIST.	132
SUMMARY AND CODE EXAMPLES.	134
CHAPTER 5: MESSAGE SUBFILES: WHAT'S THAT + NEXT TO MY MESSAGE? . . .	151
MESSAGE SUBFILE GROUND RULES	152
Program Message Queues	152
Program Status Data Structure—Procedure Name	153
Message Handling APIs	153
More on Program Message Queues	153
THE SAME BUT DIFFERENT	154
The RPG	157
QMHSNDPM	162
QMHRMVPM	165
Still Not Sold?	166
CL TO THE RESCUE	166
CODE EXAMPLES	168
CHAPTER 6: DISPLAYING MULTIPLE SUBFILES ON A SCREEN	173
MULTIPLE LISTS OF DATA.	173
HORIZONTAL OR VERTICAL?	174
OVER/UNDER	175

The (Tab) Key to Success	177
Where's the EXFMT?.	178
Keep It Simple	179
SIDE-BY-SIDE SUBFILES.	180
Nothing up My Sleeves	181
The Toggle Technique	183
HOCUS POCUS	186
CODE EXAMPLES	186
CHAPTER 7: SUBFILES AND DATA QUEUES—A PERFECT COMBINATION	193
THE DILEMMA	194
DATA QUEUES 101	195
WHY SHOULD I USE A DATA QUEUE IN A SUBFILE PROGRAM?	195
THE DDS—THE SAME AS IT EVER WAS	197
CONTROL LANGUAGE—SO LITTLE CODE, SO MUCH CONTROL	197
ABRACADABRA! THE SUBFILE'S NEVER MORE THAN ONE PAGE.	197
CODE EXAMPLES	204
CHAPTER 8: EMBEDDED SQL AND DYNAMIC SORTING SUBFILES	217
WHAT IS A SELECT STATEMENT?	219
DISPERSE—THERE'S NOTHING TO SEE HERE	220
LOOK, MOM! NO F SPECS!	220
BEHIND OPTION 14	221
THE D SPECS	222
RULES AND REGULATIONS	223
YOU'VE GOT TO PREPARE, DECLARE, AND OPEN	223
HERE, BOY! FETCH!	225
LET'S KICK IT UP A FEW NOTCHES!	226
VOILA!	230
SUMMARY AND CODE EXAMPLES.	230
CHAPTER 9: NO AVERSION TO RECURSION	237
GETTING TO KNOW SUBPROCEDURES	238
THE ORG CHART	239

ONE FIELD IS WORTH 1,000 BYTES...OKAY, 60	241
RPG (RECURSION, PROCEDURES, AND GREEK?)	242
PROPER PROTOTYPING PROMOTES PREDICTABLE PARAMETERS	243
CALLP VERSUS EXSR	244
The P Spec	246
Variables Close to Home	246
SUBMERGING SUBFILES INTO SUBPROCEDURES	247
WARNING	249
CODE EXAMPLES	249
APPENDIX SOFTWARE INSTALLATION INSTRUCTIONS	255
INDEX	257

