ELLIOTT 903

Volume 2: PROGRAMMING INFORMATION

Part 3: UTILITY PROGRAMS

Section 4: QCOPY

Contents

Chapter 1: INTRODUCTION

1.1 Purpose

To copy and check large tapes.

1.2 Form of Distribution

QCOPY is issued as a sum-checked binary tape for input by the initial instructions.

Chapter 2: FUNCTIONS

2.1 Copy

The leader is copied and the number of characters it comprises is noted. Tape is then copied until a trailer of the same length is found or the process is manually interrupted. While this is being done a check sum, and a count of the number of blank characters between the first and last non-blank character read, are formed.

2.2 Check

The tape produced is checked to ensure that when the checksum is correct the number of blank characters, as defined in 2.1, is also correct. The check will fail if the sum of the values of the characters read exceeds the sum of the values of those punched without becoming equal to it or if this sum is correct but the number of blank characters read is wrong.

The check may be repeated if necessary (e.g. if the wrong tape was checked).

Chapter   3:   ERROR INDICATIONS

No error indications are given during the copying process. 'Full house' is output continuously if the check on the number of blanks fails. If the checksum test fails tape is read until the reader unloads.

Chapter   4:   OPERATING INSTRUCTIONS

To copy a tape   enter at   21
To check the tape   enter at   22

Chapter   5:   SPACE USED

Locations 21 to 87 inclusive.

Chapter   6:   TIME TAKEN

6. 1   Copy

At the speed of the punch.

6. 2   Check

At the speed of the reader.