Structured programming. A tutorial guide

R.W. Whitty, N.E. Fenton and A.A. Kaposi

Indexing terms: Structured programming, Flowcharts, Program testing, Top-down design

Abstract: Structured programming is presented as a specific discipline of software engineering. The history of this discipline up to the mid-1970s is summarised and their subsequent approaches to its theory and practice are described. The emphasis is on providing a working familiarity with the underlying concepts and how they are formalised.

1 Introduction

1.1 Background

Structured programming is now almost 20 years old. When it was first emerging Basic was brand new, the cheapest ever IBM computer, offering 8K 16-bit words of core storage, cost over £12 000; R.K. Richards [59] wrote "the fourth generation, whatever that will be, is not yet in sight". Despite this relative venerability and the fact that hundreds of articles have been published on its theory and practice, there is still little agreement in the profession as to what structured programming actually means [36]. Practising programmers or systems analysts who claim familiarity with it may in fact be using one of a variety of methodologies such as structured analysis [85], structured design [94] or top-down functional design; or they may regard all such approaches as superseded and pedantic compared with, say, some of their own [, 10].

In this tutorial paper we will present structured programming as a viable specific discipline and as a basis for developing a sensible engineering theory. By summarising the history of the subject and some modern approaches to it, we hope to provide readers with the doors and motivation to adopt such a theory as one of the tools of their trade.

In the remainder of this introduction we describe the fundamental engineering principles underlying structured programming, explain how they are reflected in the study of program control structures and discuss their importance in modern software production and computer science.

1.2 What is structured programming?

A fundamental approach to engineering system development is top-down design (or stepwise refinement as programming texts [, 85]). A system is first viewed as a black box which performs some function linking a single input stream with a single-output stream. To design the system, we specify a decomposition of the box into a variety of simpler functions combining to produce the original function. Each of these simpler functions itself is one input, one-output black box to be designed in the same way. The design process is thus recursive or "fractal" in nature and may be represented as a tree (see Fig. 1). Every node in the tree is a black box, and every node has a group of subnodes "succeeding" below it in the tree, unless it is on the bottom level. The tree is complete when all the nodes on the bottom level represent "functional primitives" in that they are available off the shelf or, in our case, in the compiler. These are functions that do not need to be designed.

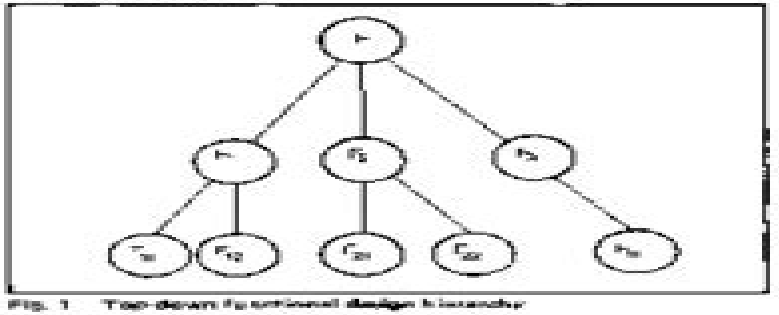

Fig. 1 Top-down functional design hierarchy

The functional hierarchy now just described is not a complete design of the system — there is as yet no information about how the successors of any node (i.e. the functions within any 'black box') are to be combined in order that they collectively perform the function of that node. How this combination is made depends on the type of processing involved. In sequential programming it is generally accomplished by specifying a conditional flow of execution of the successors. We refer to this as a 'control structure'.

Furthermore, any control structure on one level of the hierarchy has to replace some node in a control structure on the next level up (because, in the final implementation, only primitive functions and the control structures corre-

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