

SYSTEM REQUIREMENTS SPECIFICATION FOR REAL-TIME SYSTEMS

J. L. Worrig

Bell Telephone Laboratories, Inc.
Whippany, New Jersey 07881

ABSTRACT

General principles for effective formulation of system requirements specifications are discussed employing as a vehicle, patient monitoring system example as a vehicle. Particular emphasis is given the decomposition of the general statement of user need into capabilities amenable to analysis and communication, as well as the successive elaboration of these capabilities into component parts meaningful to system designers. Important characteristics of the approach are the treatment of procedural questions, the disposition of information generated by the system, the acceptance of ambiguity, and the absence of the principle of minimum commitment.

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Introduction

Considerable attention has been given recently to software requirements. Davis and Vick [1] exemplify the comprehensive scope of the approaches taken. Rosenblyth and Le [2] survey a variety of approaches and provide an integrated viewpoint. Since the basis of good software requirements is a good set of system requirements, the purpose of this paper is to present some ideas addressing the broader initial aspects of requirements pertaining to the total system configuration. The methods employed are based on an initial decomposition of user requirements into identifiable capabilities corresponding to important stimulus-response sequences. Capabilities are then elaborated to enough detail to reveal stages in the sequence which will be meaningful to system designers. This work is primarily concerned with real-time systems such as the ballistic missile defense (BMD) systems of interest to Davis and Vick. The BMD methodology of TRM [3] and the work at Sengier Labs reported by Howell [4] are a reasonable point of departure. Many of their ideas about software requirements are very close to the approach taken here to system requirements.

To establish the context, refer to Figure 1, which depicts a BMD system development cycle patterned after a software development cycle given by Davis and Vick, although liberties have been taken with the cited details. Two points are of interest. First, note that the starting point is a set of

system requirements. Since their emphasis is on software development, Davis and Vick do not treat this part of the problem to any extent. This paper will then complement that work by addressing the initial stage depicted in Figure 1. Second, note that the system is partitioned into three major subsystems: missile, radar, and data processor. Again, this was natural enough since the interest was in software development and, moreover, this was customarily the manner in which BMD systems have been partitioned in the past. This brings up the first point of departure from the software requirements work.

Charles Glaze [5] was the first to point out that such partitioning might be inappropriate for BMD systems. He cited a number of reasons, among which were the complexity of the interfaces, the difficulties of performance allocation and accountability, and compatibility for complexity growth. Vick and Davis [16] recently summarized a number of the perceived advantages of repartitioning. Virtually all the repartitioning research undertaken as a result of Glaze's observations [6], [7], [8] has indicated that indeed there might be better approaches to repartitioning than the conventional technology-based rationale implicit in Figure 1. Viewed from a data processing perspective, it might be said that if distributed data processing means anything, it means that eventually the data processing field must mature to the point where data processing subsystems no longer exist solely to localize data processing.

The alternative view taken therefore, is depicted in Figure 2. The subsystems are no longer identifiable in general as consisting primarily of a specific technology. Perhaps one might be the sensor element described by Glaze, consisting of the radar together with its supporting data processing for radar control and processing search and track data. The implications of this approach to partitioning are rather profound as far as the system requirements are concerned. It means that good system requirements must be far more attentive to the ultimate structuring of the system than they otherwise might have been.

A workable approach has been sketched in [8]. As mentioned above, it consists of first decomposing a general statement of system need into a set of capabilities which have meaning to the user of the system. Next, capabilities are elaborated into sub-steps called tasks. The tasks are quite similar to the alphas in an R-vec [5] and the abstract processes

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Thomas L. Casavant, Mukesh Singhal



Readings In Real Time Systems Ieee Computer Society:

Readings in Real-time Systems Yann-Hang Lee, C. M. Krishna, 1993 *Readings in Hardware/Software Co-Design* Giovanni De Micheli, Rolf Ernst, Wayne Wolf, 2002 This title serves as an introduction and reference for the field with the papers that have shaped the hardware software co design since its inception in the early 90s **Real-Time Systems and Software** Alan C. Shaw, 2001-03-15 Emphasizing concepts and principles this book provides readers with an accessible approach to software design It presents several examples of commercial and research systems throughout the chapters to explain and justify the concepts And the material presented is technically diverse including discussions of state machines logic concurrent programming and scheduling algorithms Modeling, Verification and Exploration of Task-Level Concurrency in Real-Time Embedded Systems Filip Thoen, Francky Catthoor, 2012-12-06 system is a complex object containing a significant percentage of electronics that interacts with the Real World physical environments humans etc through sensing and actuating devices A system is heterogeneous i e is characterized by the co existence of a large number of components of disparate type and function for example programmable components such as micro processors and Digital Signal Processors DSPs analog components such as A/D and D/A converters sensors transmitters and receivers Any approach to system design today must include software concerns to be viable In fact it is now common knowledge that more than 70% of the development cost for complex systems such as automotive electronics and communication systems are due to software development In addition this percentage is increasing constantly It has been my take for years that the so called hardware software co design problem is formulated at a too low level to yield significant results in shortening design time to the point needed for next generation electronic devices and systems The level of abstraction has to be raised to the Architecture Function co design problem where Function refers to the operations that the system is supposed to carry out and Architecture is the set of supporting components for that functionality The supporting components as we said above are heterogeneous and contain almost always programmable components **Readings in Distributed Computing Systems** Thomas L. Casavant, Mukesh Singhal, 1994 **Object-Based Parallel and Distributed Computation** Jean-Pierre Briot, 1996-07-24 This book contains a refereed collection of revised papers selected from the presentations at the France Japan Workshop on Object Based Parallel and Distributed Computation OBPDC 95 held in Tokyo in June 1995 The 18 full papers included in the book constitute a representative well balanced set of timely research contributions to the growing field of object based concurrent computing The volume is organized in sections on massively parallel programming languages distributed programming languages formalisms distributed operating systems dependable distributed computing and software management **Advanced Transaction Models and Architectures** Sushil Jajodia, Larry Kerschberg, 2012-12-06 Motivation Modern enterprises rely on database management systems DBMS to collect store and manage corporate data which is considered a strategic corporate resource Recently with the proliferation of personal computers and departmental

computing the trend has been towards the decentralization and distribution of the computing infrastructure with autonomy and responsibility for data now residing at the departmental and workgroup level of the organization. Users want their data delivered to their desktops allowing them to incorporate data into their personal databases, spreadsheets, word processing documents and most importantly into their daily tasks and activities. They want to be able to share their information while retaining control over its access and distribution. There are also pressures from corporate leaders who wish to use information technology as a strategic resource in offering specialized value added services to customers. Database technology is being used to manage the data associated with corporate processes and activities. Increasingly the data being managed are not simply formatted tables in relational databases but all types of objects including unstructured text, images, audio and video. Thus the database management providers are being asked to extend the capabilities of DBMS to include object relational models as well as full object oriented database management systems.

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The Sixth Annual Workshop on Space Operations Applications and Research (SOAR 1992), 1993

Multi-Agent System Engineering Francisco J. Garijo, Magnus Boman, 2007-07-23. In the ten years since the first MAAMAW was held in 1989 at King's College, Cambridge, the field of Multi Agent Systems (MAS) has flourished. It has attracted an increasing amount of theoretical and applied research. During this decade, important efforts have been made to establish the scientific and technical foundations of MAS. MAAMAW publications are testimony to the progress achieved in key areas such as agent modelling and reasoning, multi agent interaction and communication and multi agent organisation and social structure. Research results have covered a wide range of inter related topics in each area including agent architectures, reasoning models, logics, conflict resolution, negotiation, resource allocation, load balancing, learning, social behaviour and interaction, languages and protocols, interagent and agent human communication, social models, agent roles, norms and social laws and static and dynamic organisational

structures The feasibility and the viability of the proposed models and techniques have been demonstrated through MAS applications in heterogeneous domains including electronic commerce co operative work telecommunications social and biological systems robotics office and business automation public administration social simulations and banking As the applicability of the technology became understood the multi agent paradigm has been progressively accepted by product managers and system developers giving rise to a considerable amount of business expectation from industry These expectations do not rest on the concept or metaphor of agent but on the development of MAS useful in an industrial setting with real time systems presenting the biggest challenge

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