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...EMBEDDED SYSTEM  
DESIGN UNIT 1  
INTRODUCTION TO  
EMBEDDED SYSTEM  
Embedded systems  
overview An embedded  
system is nearly any  
computing system  
other than a desktop  
computer. An  
embedded system is a  
dedicated system  
which performs the  
desired function upon  
power up,  
repeatedly.EMBEDDED  
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dded system software:

The embedded system software is written to perform a particular function. It is typically written in a high level format and then compiled down to provide code that can be lodged within a non-volatile memory within the hardware.

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Embedded Systems (4)  
Frequently connected  
to physical  
environment through  
sensors and actuators,  
Hybrid systems (analog  
+ digital parts).  
Typically, ES are  
reactive systems: „A  
reactive system is one  
which is in continual  
interaction with its  
environment and  
executes at a pace  
determined by that  
environment“ [Bergé,  
1995]1. Introduction to  
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What is NRE cost? NRE cost is the nonrecurring engineering cost. It is the one time monetary cost of designing the system. 1.9 The design of a particular disk drive has an NRE cost of \$100,000 and a unit cost of \$20. How much will we have to add to the cost of each product to cover our NRE cost, Embedded System Design Embedded System Design Issues (the Rest of the Story) Philip J. Koopman, Jr. Preprint of paper published in: Proceedings of the International Conference on Computer Design (ICCD 96) in conjunction with an embedded tutorial session of the same title Embedded System Design Issues (the Rest

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### **Embedded System Design**

EMBEDDED SYSTEM  
CONSTRAINTS An  
embedded system is  
software designed to  
keep in view three  
constraints: -Available  
system memory  
-Available processor  
speed -The need to  
limit the power  
dissipation When  
running the system  
continuously in cycles  
of wait for events, run,  
stop and wakeup.

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the nonrecurring  
engineering cost. It is  
the one time monetary  
cost of designing the  
system. 1.9 The design  
of a particular disk  
drive has an NRE cost  
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Andreas Gerstlauer  
Electrical and Computer Engineering  
University of Texas at Austin  
gerstl@ece.utexas.edu  
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Characteristics of Embedded Systems (4)  
Frequently connected to physical environment through

sensors and actuators, Hybrid systems (analog + digital parts). Typically, ES are reactive systems: „A reactive system is one which is in continual interaction with its environment and executes at a pace determined by that environment“ [Bergé, 1995]

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**bharathuniv.ac.in** Embedded System Design Issues (the Rest of the Story) Philip J. Koopman, Jr. Preprint of paper published in: Proceedings of the International Conference on Computer Design (ICCD 96) in conjunction with an embedded tutorial

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SpecC: Import  
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different from a  
#include directive  
which is used for  
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software: The  
embedded system  
software is written to  
perform a particular  
function. It is typically  
written in a high level  
format and then  
compiled down to  
provide code that can

be lodged within a non-volatile memory within the hardware.

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