

Information Systems

ISM 3011

Fall 2004

Unit 9A

Wednesday: Online Unit (no classes)

- Will be available on the course Web page by Wednesday morning 10:00 a.m.

<http://ruby.fgcu.edu/Courses/mhepp/>

- Relevant for the quiz on Monday!

Assignment for Next Monday

- Read chapter 10 (p. 410 – 452)
- Self-assessment test (p. 452 – 453)
- Review key terms (p. 453)
- Prepare review questions 1, 4, 13, and 17.

Book Machine



Dr. Martin Hepp

Make Your Customers Part of Your Business



Dr. Martin Hepp

Transaction Processing & Enterprise Resource Planning Systems

Chapter 9

Batch versus On-Line Transaction Processing

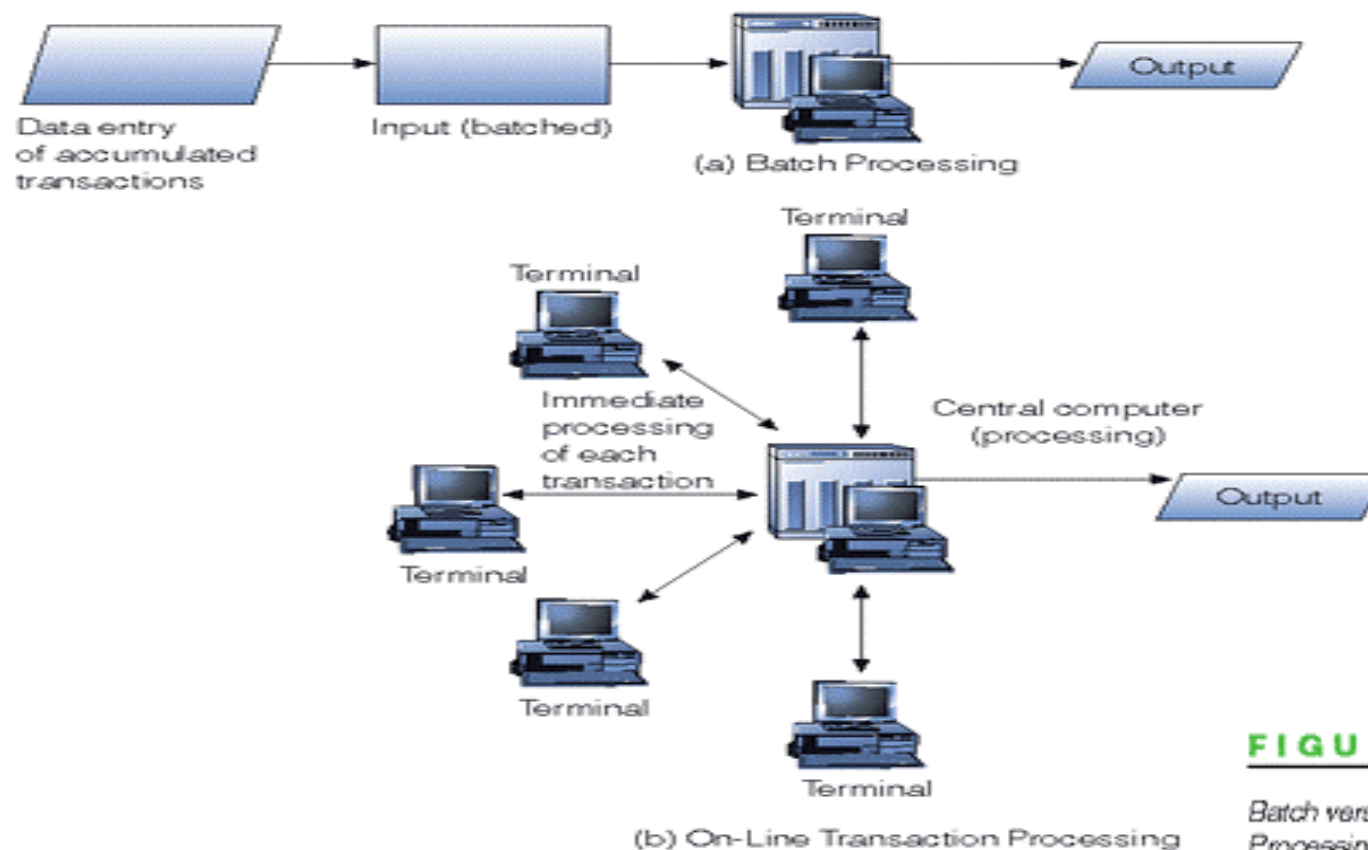
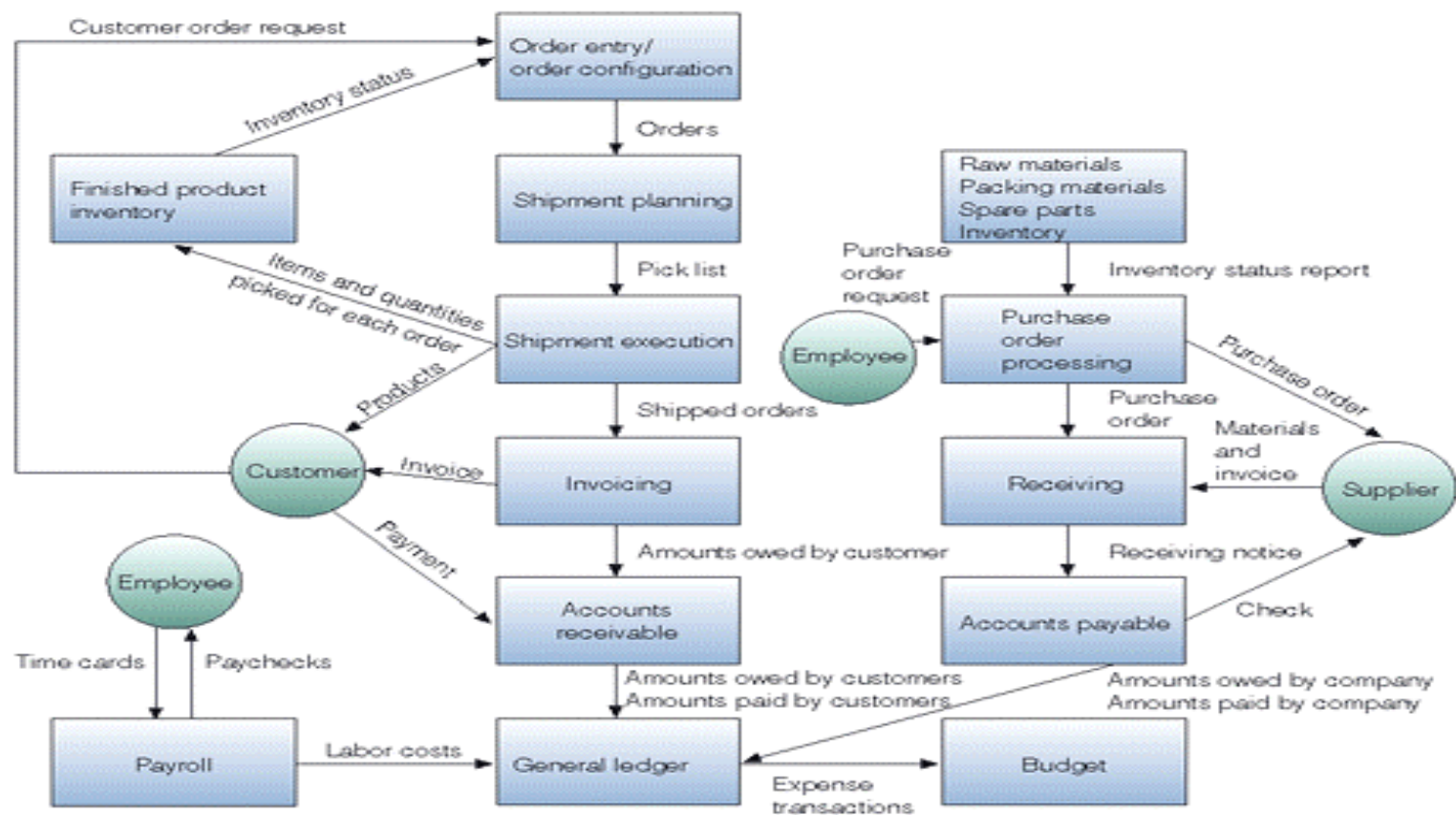


FIGURE 9.2

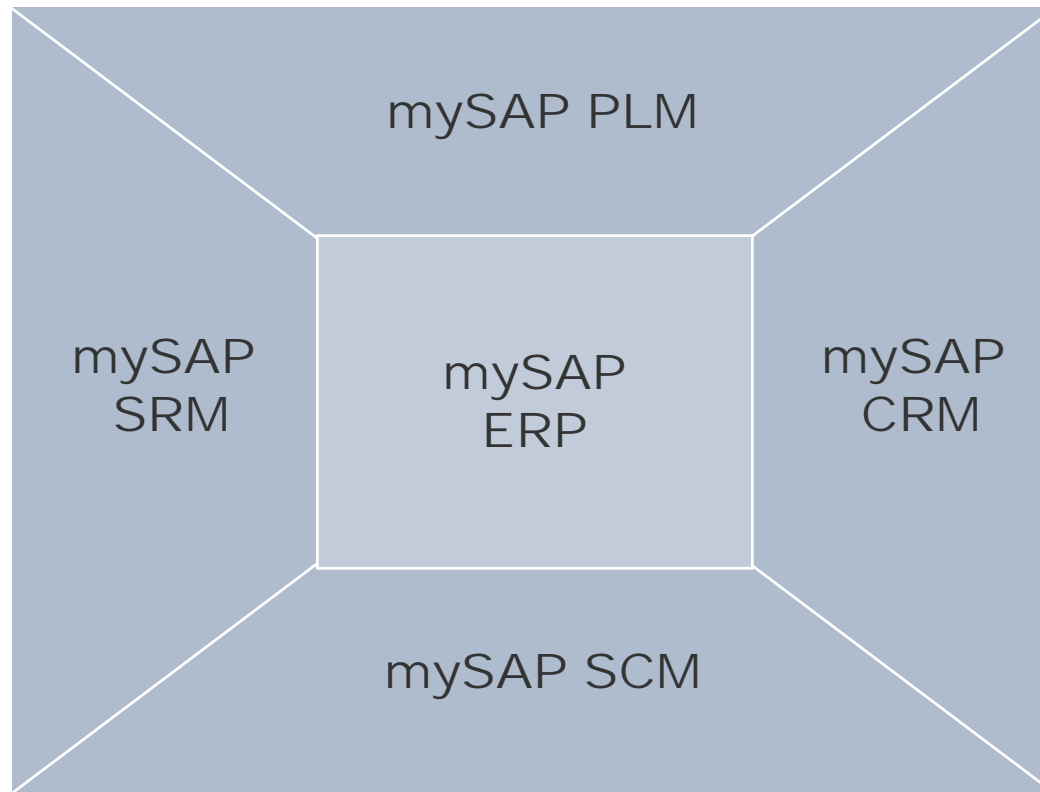
Batch versus On-Line Transaction Processing

Batch processing (a) inputs and processes data in groups. In on-line processing (b), transactions are completed as they occur.

Integration of a Firm's TPSs



mySAP Business Suite



Industry Best
Practices



Adaptive
Operations



Extensible with
xApps

<http://www.cio.com/research/erp/edit/erpbasics.html>

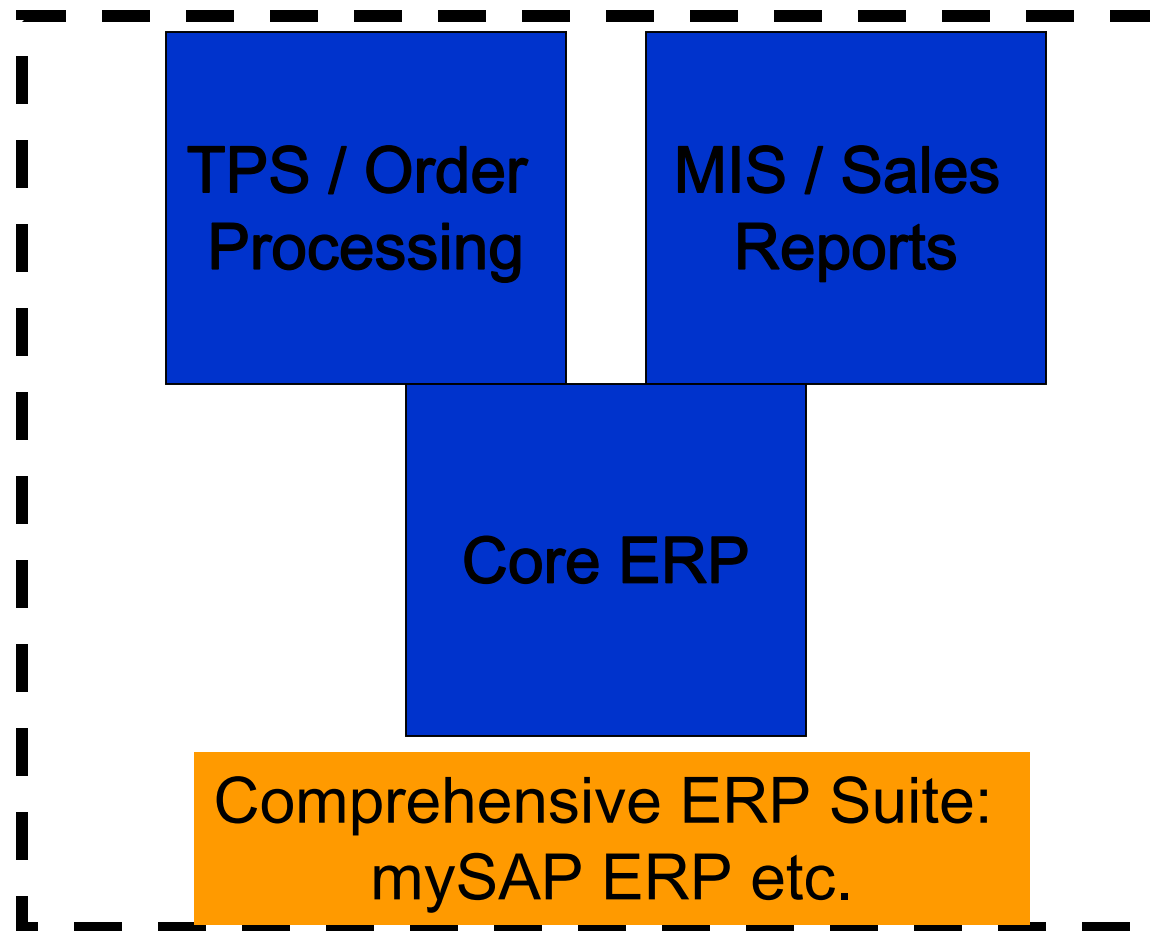
Advantages of ERP

- Eliminates costly, inflexible legacy systems
- Improved technology infrastructure
- Improved work processes
- Increased data access for decision making

Disadvantages of ERP

- Expense & time
- Radical change
- Integrating with other systems
- One vendor risks

ERP, TPS, MIS: Fuzzy Borders



Master Production Scheduling and Inventory Control

When and how much to order?

- Economic Order Quantity (EOQ)
- Reorder Point (ROP)
- Material Requirements Planning (MRP)

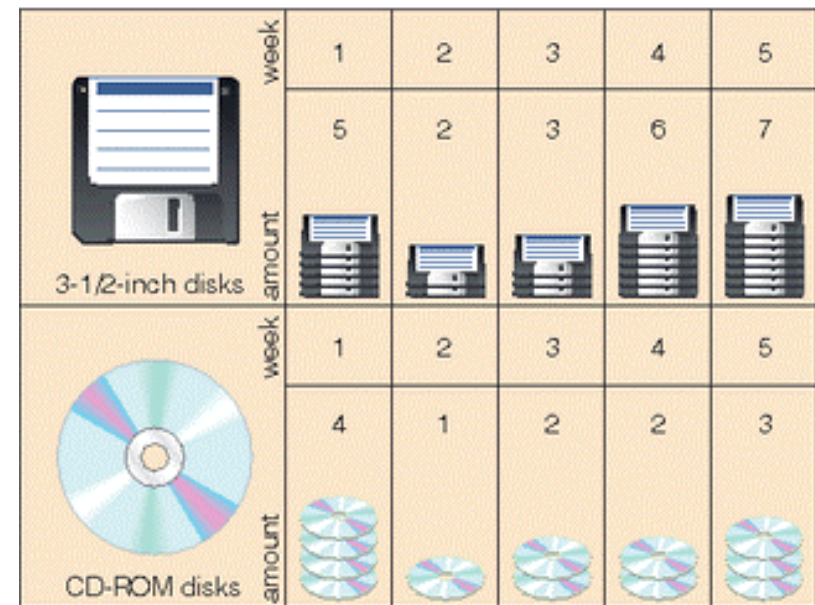


FIGURE 10.8

A master production schedule for computer disks and CDs indicates the quantity of each to be produced each week in thousands.

MRP –

Material Requirements Planning

- Determines the amount of parts needed.
- Demand between products can be interrelated.

MRP – Input

- Master Production Schedule (**MPS**)
- Bill of Material (**BOM**): lists the component part numbers for each part
- Inventory status data

From pending orders to Material Requirements

- Input:
 - Pending orders
 - Inventory levels
 - Bills of Materials
- Example

MRPII – Manufacturing Resource Planning

- Includes requires workstation time, employees, and other resources.
- Capacity restrictions are included in the planning process.

Thank you!

The slides will be available on the
internet at

<http://ruby.fgcu.edu/courses/mhepp/>
(-> CRN80097)