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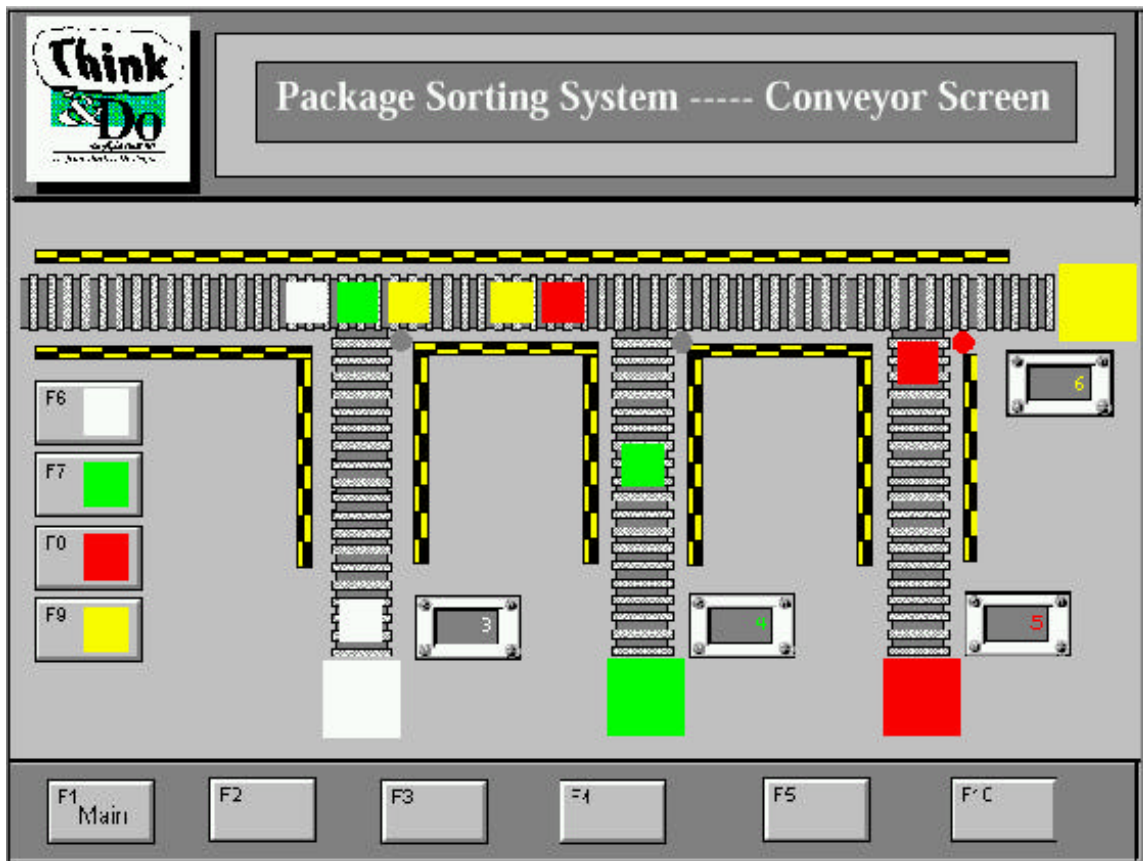
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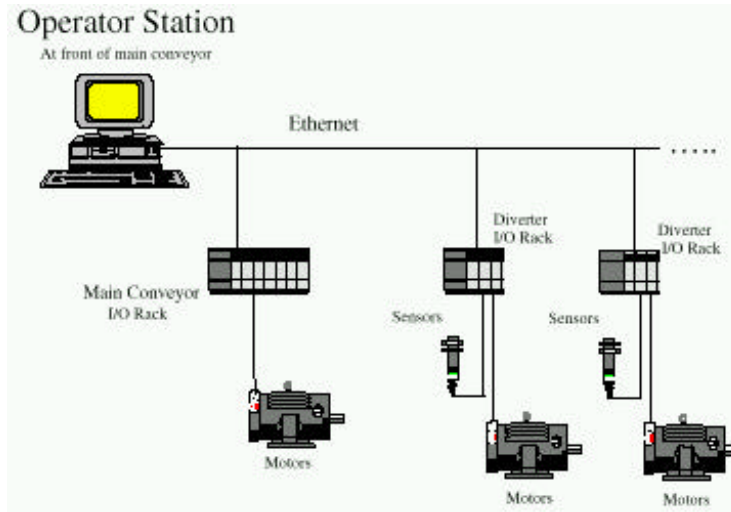
## Think & Do Featured Applications

### Sorting and Conveyor Application

#### Package Tracking Through Multiple Diversion Points

This application uses multiple arrays to track packages down the main conveyor and diverts the packages to side conveyors to accumulate for each of the four different package types (represented by color). A bar code scanner at the inlet of the main conveyor identifies each package type. An operator has the option to change the package type in real time using function keys on the standard Pentium PC which is used for operator interface. For each of the four package types, a code number is placed into the main data array to represent packages queued in the conveyor. Thus the code both indicates an occupied position on the conveyor and also identifies the target diversion conveyor. As the package approaches each diversion conveyor, its code number is evaluated to determine if the diverter mechanism needs to be actuated. If so, the flowchart activates the diverter and moves the code number from the main array to the diverter conveyor array. When packages reach the end of a diverter conveyor, the accumulated value for the conveyor is incremented. The system maintains overall statistics on the number of each package type handled per shift as well utilization statistics on the various diverter conveyors.





### SOME OF THE HIGHLIGHTS

- OFF-THE-SHELF COMPONENTS - Control is done with a standard Pentium PC with standard Ethernet card and Think & Do Software on windows NT.
- MULTIPLE I/O BASES I/O is based on multiple **Automationdirect.com** Ethernet I/O. The main conveyor I/O rack is an 8-slot base and the diverter I/O racks are 4-slot bases.
- FLOWCHART LOGIC controls the process, with one flow chart controlling all the package tracking through the use of arrays.
- A VISUAL BASIC program is used to interface to the specialized bar code readers used in this high-speed application.

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