

Real Time Dispatch: Scheduling the Future in Burlington

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Abstract

IBM's Automated Product Scheduler is used to improve manufacturing efficiency in its Burlington 200mm Fab. The Burlington Fab is a high part number, multi technology production line. The diverse product and technology mix results in a complicated scheduling due to the large number of unique process required. IBM has developed an automated scheduling system that works in conjunction with our overhead track. The scheduler has resulted in significant improvements in operator terminal work, batching, chemical usage, parts per hour and most significantly delivery times. All of these improvements will be reviewed in the paper. In addition this paper will discuss what inputs are required in determining the floor run rules. The auto scheduler is a dynamic system that can be continually tailored to the needs of the user, resulting in significant productivity improvements throughout the Fab. In a world of continually changing product mixes and technology changes the auto scheduler is considered an integral part of IBM Burlington manufacturing as well as a solid base from which to expand into the highly automated 300mm Fabs.