A Single Facility Scheduling Problem of Products with Two-Type Components under Mean Flow Time Measure

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This paper analyzes a scheduling problem concerned with production of various components at a single manufacturing facility where the manufactured components are subsequently assembled into a finite number of end products. Each product is composed of its product-dependent quanity of a common component and the product-dependent component, where the common component is commonly used to all the products. All the components are manufactured in batch process at the single facility, while the manufactured components are individually moved to the next station. The solution properties are characterized subject to the mean flow measure, based upon which a solution alglorithm is exploited.