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Abstract: The aim of this paper is to examine relations between the development of the total factor productivity (TFP) and the development of Gross value added in the context of growth GVA (extensive or intensive growth sources). The analysis focuses on the Czech Republic industry. Data sources were taken from the Czech Republic national accounts in the period of 1996-2011. It was found that the share of industry in the GVA added is continuously growing. The most important part of the industry is the manufacturing industry (90% of the GVA industry). The development of the total factor productivity mirrors the development of the GVA. The dynamics of the both variables GVA and TFP is influenced by the business cycle. The performed analysis confirmed two hypotheses primarily in the manufacturing industry. The first hypothesis assumes that the intensive factor prevails if the value of the TFP is greater than the GVA index and, at the same time, the TFP is greater than 1. The second hypothesis assumes that the extensive factor prevails if the value of the GVA index is greater than the TFP and, at the same time TFP, is less than 1.

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