

# Accepted Manuscript

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PII: S0165-1889(18)30036-8  
DOI: [10.1016/j.jedc.2018.01.022](https://doi.org/10.1016/j.jedc.2018.01.022)  
Reference: DYNCON 3527

To appear in: *Journal of Economic Dynamics & Control*

Received date: 24 October 2017  
Revised date: 15 December 2017  
Accepted date: 10 January 2018

Please cite this article as: Urban J. Jermann, Vivian Z. Yue, Interest Rate Swaps and Corporate Default, *Journal of Economic Dynamics & Control* (2018), doi: [10.1016/j.jedc.2018.01.022](https://doi.org/10.1016/j.jedc.2018.01.022)



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# Interest Rate Swaps and Corporate Default\*

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January 19, 2018

## Abstract

This paper studies firms' usage of interest rate swaps in a model economy driven by aggregate productivity shocks, inflation shocks, and counter-cyclical idiosyncratic productivity risk. Consistent with empirical evidence, firms in the model are fixed-rate payers. Counter-cyclical productivity risk is key for this finding; inflation risk contributes to producing the opposite outcome. Also consistent with empirical evidence, swap positions are negatively correlated with the term spread, so that firms appear to be timing the market. In the model, swaps generate only small economic gains for the typical firm.

**Key words:** Interest rate swaps; corporate default; derivative usage; firm borrowing and investment

Interest rate swaps are derivative contracts through which two parties exchange fixed and floating rate coupon payments. Such swaps were first used in the early 1980s. By now they are among the most popular derivative contracts. As shown in Figure 1, the notional amount of outstanding interest rate swaps denominated in dollars, for non-financial institutions, is about 10 trillion dollars. In surveys of derivative usage, a sizable fraction of the larger firms in the

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\*We are grateful for comments from seminar participants at Columbia University, NYU, Ohio State, Rochester, CKGSB, the Federal Reserve Board, Johns Hopkins University, Minnesota Macro-Asset Pricing Conference, University of Lausanne, as well as from Adrien Verdelhan, Suresh Sundaresan, and Xiaoji Lin. We thank Michael Faulkender for sharing his data. Yue acknowledges the financial support from European Central Bank Lamfalussy Research Fellowship. The views expressed in this paper are solely the responsibility of the authors and should not be interpreted as reflecting the views of the the Federal Bank of Atlanta or of any other person associated with the Federal Reserve System.

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