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## Forth in a Muon Channel with CAMAC Control

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### ABSTRACT

Control and diagnostic software was developed for M15, a recently commissioned surface muon channel at TriumF. Logistics gave rise to several efforts in several programming languages. This paper describes the Forth diagnostic package, and the choices of languages is briefly discussed. Several extensions to the Forth language, and the way they were put to use, are shown in the framework of a detailed account of the software implementation. The emphasis is on the production of readable code and on the design of constructs that most closely model the structure of the application.

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