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Restoring the Differential Resistance of MD6

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Abstract: These notes present new results to reestablish the differential resistance of MD6. In this paper we introduce a classification system of differential weight patterns that allows us to extend previous analysis to prove that MD6 is resistant to differential cryptanalysis. Our analysis allows us to more than double the security margin of MD6 against differential attacks.

Category / Keywords: foundations / cryptographic hash function

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Note: Added links to the source code since the source code has now been published online.

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