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A family of $[2^{2t}, 3t + 1, 2^{2t-1} - 2^{t-1}]$ binary codes.

We study a family of $[2^{2t}, 3t + 1, 2^{2t-1} - 2^{t-1}]$ binary codes, which are obtained from the first order Reed Muller code $RM[1, 2t]$, together with some of its bent function cosets. (Received August 12, 2013)