

Laborator 2.2

Code coverage in VS 2022 Enterprise Edition

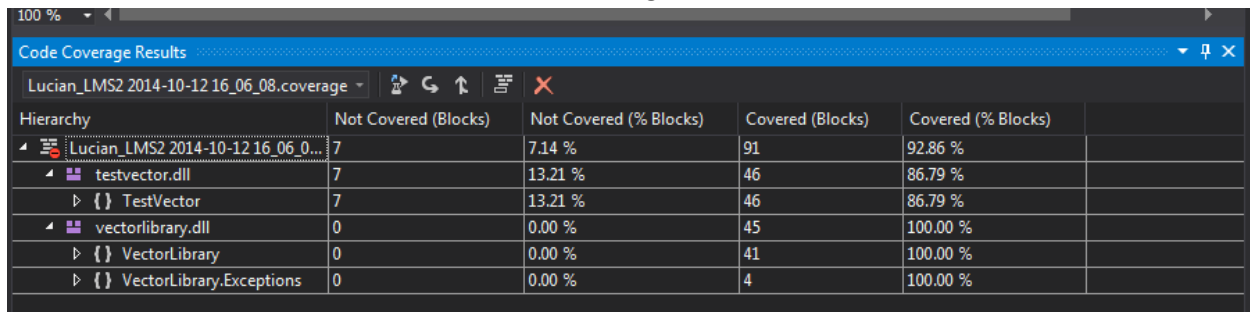
La o rulare de teste se poate pune intrebarea: cat din codul scris a fost acoperit de testele rulate = code coverage?

Definitie Code coverage: http://en.wikipedia.org/wiki/Code_coverage

Lucru cu code coverage: demo laborator

Secventa de lucru pentru Visual Studio 2022 Enterprise Edition (resursa: <http://msdn.microsoft.com/en-us/library/dd537628.aspx>): Test -> Analyze code coverage -> "All tests" (sau "Selected tests").

Rezultatele se vor vedea in fereastra de "Code coverage results":



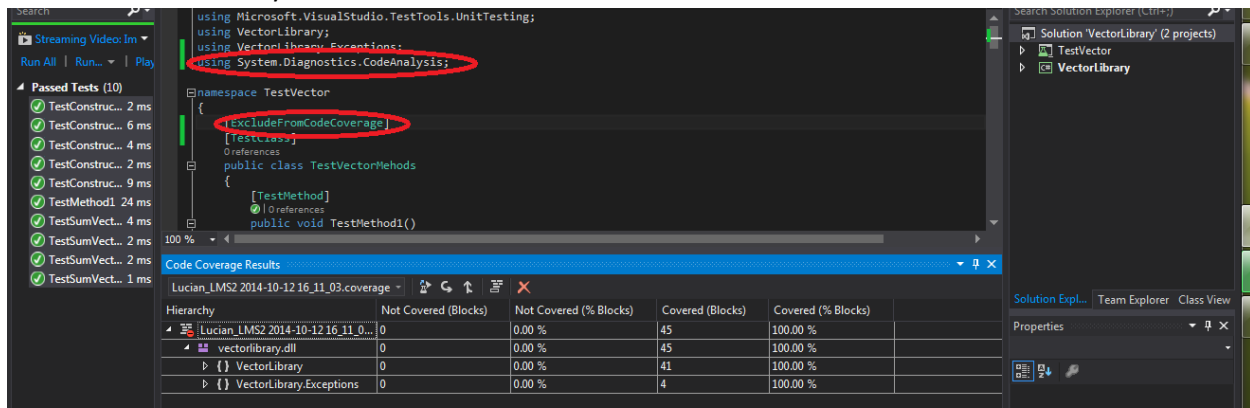
Hierarchy	Not Covered (Blocks)	Not Covered (% Blocks)	Covered (Blocks)	Covered (% Blocks)
Lucian_LMS2 2014-10-12 16_06_08.coverage	7	7.14 %	91	92.86 %
testvector.dll	7	13.21 %	46	86.79 %
TestVector	7	13.21 %	46	86.79 %
vectorlibrary.dll	0	0.00 %	45	100.00 %
VectorLibrary	0	0.00 %	41	100.00 %
VectorLibrary.Exceptions	0	0.00 %	4	100.00 %

Figura 1. Code coverage, incluzand proiectul de testare

Se observa ca si proiectul care contine testele unitare este masurat din punct de vedere al acoperirii cu teste, ceea ce nu e de dorit (testarea vizeaza functionalitatile din biblioteca vectorlibrary, nu testarea in sine) .

Pentru eliminarea proiectului de testare de la code coverage se adauga atributul

ExcludeFromCodeCoverage la clasele de testare. Se observa ca acum code coverage se refera strict la biblioteca vectorlibrary:



Hierarchy	Not Covered (Blocks)	Not Covered (% Blocks)	Covered (Blocks)	Covered (% Blocks)
Lucian_LMS2 2014-10-12 16_11_03.coverage	0	0.00 %	45	100.00 %
vectorlibrary.dll	0	0.00 %	45	100.00 %
VectorLibrary	0	0.00 %	41	100.00 %
VectorLibrary.Exceptions	0	0.00 %	4	100.00 %

Figura 2. Code coverage fara proiectul de testare

Alternativa: utilizarea si particularizarea unui fisier de configurare, conform

<http://msdn.microsoft.com/en-us/library/jj159530.aspx>. Fisierul poate fi descarcat de la

<http://msdn.microsoft.com/en-us/library/jj159530.aspx#sample>.