CreditRiskCapital 설명서

- 이 모델은 신용VaR 및 신용리스크자기자본 산출 모델입니다.
 - 1. 자신의 엑셀 bit수 확인

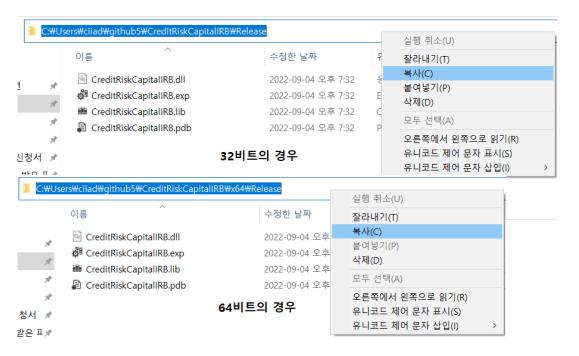
파일>계정>엑셀정보



- 2. Alt + F11로 VBA창 키기
- 3. VBA 모듈 들어가서 다음 순서에 따라 dll의 디렉토리 바꾸기 (현재 dll이 설치되어있는 디렉토리로 바꾸기)

또한 엑셀이 64bit일 경우 Declare Function -> Declare PtrSafe Function으로 바꾸기

3-1. dll이 존재하는 디렉토리 복사



3-2. VBA 모듈 디렉토리 변경

Public Declare PtrSafe Function Calc_CreditRiskCapital Lib "O: #Users#KDBWgithub5#CreditRiskCapitalIRB#x64#Release#CreditRiskCapitalIRB.dll" (_
ByVal Number_Of_Portfolios As Long, ByRef Port_Correlation_Bashaped As Double, ByRef Namber_Loan_Array As Long, ByRef MaturityFlag_Array As I
ByRef RecoveryRate_Array As Double, ByRef PD_Array As Double, ByRef CopulaCorrAutoFlag_Array As Long, ByRef Copula_Corr_Array As Double, ByRef ByRef IsRetail As Long, ByRef ReshapedLoanAmount As Double, ByRef Output_Copula_Corr As Double, _
ByRef Expected_Loss As Double, ByRef Credit_YaR As Double, ByRef RiskCapital As Double, ByRef ExpectedDefaultRate As Double, ByRef Default_Rate_Std As Double, ByRef WorstCaseDefaultRate As Double, ByRef Beta As Double, ByRef MA As Double, ByVal Method As Long, ByRef

32비트의 경우 CreditRiskCapitalIRB₩Release₩CreditRiskCapitalIRB.dll

Public Declare PtrSafe Function Calc_CreditRiskCapital Lib "" **WUsers**Ciiad**Biglithub5**CreditRiskCapitalIRB**X64**Release***CreditRiskCapitalIRB**.dll" (
ByVal Number_Of_Portfolios As Long, ByRef Port_Correlation_Reshaped As Double, ByRef NaturityFlag_Array As Long
ByRef RecoveryRate_Array As Double, ByRef Polarray As Double, ByRef CopulaCorraturoflag_Array As Long, ByRef Copula_Corr_Array As Double, ByRef
ByRef IsRetail As Long, ByRef ReshapedLoanAmount As Double, ByRef Oputa_Corr As Double, ByRef Spreeted_Loss As Double, ByRef Credit_YaR As Double, ByRef RiskCapital As Double, ByRef Expected_Loss As Double, ByRef Credit_YaR As Double, ByRef RiskCapital As Double, ByRef ExpectedDefaultRate As Double, ByRef Beta As Double, ByRef MA As Double, ByVal Method As Long, ByRef
) As Long

4. 채권포트폴리오 정보 입력

채권포트폴리오1		채권포트폴리오2		채권포트폴리오3		리오3	
1	채권개수	120	채권개수	120		채권개수	120
	리스크기간지정Flag	0	리스크기간지정Flag \	0		리스크기간지정Flag [*]	0
	리스크측정기간		리스크측정기간			리스크측정기간	
1	회수율	0.5	회수율	0.5		회수율	0.5
	개별 부도율	1.000%	개별 부도율	1.000%		개별 부도율	1.000
1	Correlation Flag	0	Correlation Flag	0		Correlation Flag	0
	Copula Correlation		Copula Correlation			Copula Correlation	
1	유의수준	0.10%	유의수준	0.10%		유의수준	0.10
1	Retail 채권여부	1	Retail 채권여부	0		Retail 채권여부	0
	채권포트폴 액면금9		채권포트폴 액면금			채권포트폴 액면금:	
	액면금약 Idx1		액면금 Idx1			· · · · · · · · · · · · · · · · · · ·	
	액면금약 Idx1 Idx2	· 백	액면금	액		액면금• Idx1 Idx2	액
	액면금약 Idx1 Idx2 Idx3	88	액면금 Idx1	·액 8		· · · · · · · · · · · · · · · · · · ·	액 [*] 8
	액면금약 Idx1 Idx2	8 8	액면금 Idx1 Idx2	.액 8 8		액면금• Idx1 Idx2	액 8 8
	액면금약 Idx1 Idx2 Idx3	8 8 8	액면금 Idx1 Idx2 Idx3	.액 8 8 8		액면금 Idx1 Idx2 Idx3	액 8 8 8

5. 가격계산 매크로 실행

			VaR	113.3631333
	RC계산		ExpectedLoss	12
			RiskCapital	101.3631333
	채권포트폴리오1	채권포트폴리오2	채권포트폴리오3	채권포트폴리오4
Copula Correlation	0.1216	0.1928		
Expected Loss	6.0000	6.0000		
Credit VaR	56.0000	88.0000		
RiskCapital	50.0000	103.3044		
DefaultCorrelation				
E[Default Rate]	0.0100	0.0100		
Stdev[Default Rate]	0.0109	0.0149		
WCDR	0.0914	0.1403		
Beta	0.1375	0.1375		
MA	1.0000	1.2598		