1. **Kurze Beschreibung der einzelnen Klassen**

* BackendMips:
* GlobalPointerRegister:
* Register:
* Registers:
* Segment:
* StackPointerRegister:
* SyscallCode:

1. **Code Coverage**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Klassen/Testfälle | **TF 1** | **TF 2** | **TF 3** | **TF 4** | **TF 5** | **TF 6** | **TF X** | **TF Y** | **TF Z** | **Insgesamt** |
| **BackendMIPS** |  | | | | | | | | | |
| Methodenabdeckung | 49% | 50% | 59% | 61% | 70% | 63% |  |  |  |  |
| Zeilenabdeckung | 42% | 42% | 51% | 57% | 66% | 55% |  |  |  |  |
| **GlobalPointerRegister** |  | | | | | | | | | |
| Methodenabdeckung | 100% | 33% | 100% | 100% | 100% | 100% |  |  |  | 100% |
| Zeilenabdeckung | 75% | 23% | 76% | 70% | 70% | 70% |  |  |  |  |
| **Register** |  | | | | | | | | | |
| Methodenabdeckung | 100% | 100% | 100% | 100% | 100% | 100% |  |  |  | 100% |
| Zeilenabdeckung | 100% | 100% | 100% | 100% | 100% | 100% |  |  |  | 100% |
| **Registers** |  | | | | | | | | | |
| Methodenabdeckung | 64% | 58% | 64% | 64% | 76% | 64% |  |  |  |  |
| Zeilenabdeckung | 63% | 63% | 64% | 67% | 71% | 67% |  |  |  |  |
| **Segment** |  | | | | | | | | | |
| Methodenabdeckung | 100% | 100% | 100% | 100% | 100% | 100% |  |  |  | 100% |
| Zeilenabdeckung | 100% | 100% | 100% | 100% | 100% | 100% |  |  |  | 100% |
| **StackPointerRegister** |  | | | | | | | | | |
| Methodenabdeckung | 71% | 85% | 85% | 85% | 85% | 85% |  |  |  |  |
| Zeilenabdeckung | 66% | 88% | 88% | 88% | 88% | 88% |  |  |  |  |
| **SyscallCode** |  | | | | | | | | | |
| Methodenabdeckung | 80% | 80% | 80% | 80% | 80% | 80% |  |  |  |  |
| Zeilenabdeckung | 93% | 93% | 93% | 93% | 93% | 93% |  |  |  |  |

1. **Code Coverage - Detailliert**

**Agenda:**

* Grün – Vollständige Abdeckung der gesamten Methode
* Gelb – Nicht vollständige Abdeckung der Methode
* Rot – Keine Abdeckung der Methode

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Klasse(Methoden)/Testfall | TF 1 | TF 2 | TF 3 | TF 4 | TF 5 | TF 6 | TF Fak | TF Y | TF Z | In Summe |
| **BackendMIPS** |  | | | | | | | | | |
| BackendMIPS |  |  |  |  |  |  |  |  |  |  |
| changeSegment |  |  |  |  |  |  |  |  |  |  |
| wordSize |  |  |  |  |  |  |  |  |  |  |
| boolValue |  |  |  |  |  |  |  |  |  |  |
| allocReg |  |  |  |  |  |  |  |  |  |  |
| freeReg |  |  |  |  |  |  |  |  |  |  |
| zeroReg |  |  |  |  |  |  |  |  |  |  |
| comment |  |  |  |  |  |  |  |  |  |  |
| emitLabel |  |  |  |  |  |  |  |  |  |  |
| allocStaticData |  |  |  |  |  |  |  |  |  |  |
| allocStringConstant |  |  |  |  |  |  |  |  |  |  |
| allocStack |  |  |  |  |  |  |  |  |  |  |
| allocHeap |  |  |  |  |  |  |  |  |  |  |
| move |  |  |  |  |  |  |  |  |  |  |
| storeArrayDim |  |  |  |  |  |  |  |  |  |  |
| allocArray |  |  |  |  |  |  |  |  |  |  |
| loadConst |  |  |  |  |  |  |  |  |  |  |
| loadAdress |  |  |  |  |  |  |  |  |  |  |
| loadWord |  |  |  |  |  |  |  |  |  |  |
| storeWord |  |  |  |  |  |  |  |  |  |  |
| loadWordReg |  |  |  |  |  |  |  |  |  |  |
| loadWordReg |  |  |  |  |  |  |  |  |  |  |
| storeWordReg |  |  |  |  |  |  |  |  |  |  |
| arrayOffset |  |  |  |  |  |  |  |  |  |  |
| arrayLength |  |  |  |  |  |  |  |  |  |  |
| writeString |  |  |  |  |  |  |  |  |  |  |
| syscall |  |  |  |  |  |  |  |  |  |  |
| neg |  |  |  |  |  |  |  |  |  |  |
| add |  |  |  |  |  |  |  |  |  |  |
| addConst |  |  |  |  |  |  |  |  |  |  |
| sub |  |  |  |  |  |  |  |  |  |  |
| mul |  |  |  |  |  |  |  |  |  |  |
| mulConst |  |  |  |  |  |  |  |  |  |  |
| div |  |  |  |  |  |  |  |  |  |  |
| mod |  |  |  |  |  |  |  |  |  |  |
| isLess |  |  |  |  |  |  |  |  |  |  |
| isLessOrEqual |  |  |  |  |  |  |  |  |  |  |
| isEqual |  |  |  |  |  |  |  |  |  |  |
| not |  |  |  |  |  |  |  |  |  |  |
| and |  |  |  |  |  |  |  |  |  |  |
| or |  |  |  |  |  |  |  |  |  |  |
| branchIf |  |  |  |  |  |  |  |  |  |  |
| jump |  |  |  |  |  |  |  |  |  |  |
| enterMain |  |  |  |  |  |  |  |  |  |  |
| exitMain |  |  |  |  |  |  |  |  |  |  |
| enterProc |  |  |  |  |  |  |  |  |  |  |
| exitProc |  |  |  |  |  |  |  |  |  |  |
| jumpRegister |  |  |  |  |  |  |  |  |  |  |
| returnFromProc |  |  |  |  |  |  |  |  |  |  |
| prepareProcCall |  |  |  |  |  |  |  |  |  |  |
| jumpAndLink |  |  |  |  |  |  |  |  |  |  |
| passArg |  |  |  |  |  |  |  |  |  |  |
| callProc |  |  |  |  |  |  |  |  |  |  |
| paramOffset |  |  |  |  |  |  |  |  |  |  |
| writePredefinedProcedures |  |  |  |  |  |  |  |  |  |  |
| writeProcedure\_writeint |  |  |  |  |  |  |  |  |  |  |
| **GlobalPointerRegister** |  | | | | | | | | | |
| GlobalPointerRegister |  |  |  |  |  |  |  |  |  |  |
| allocateBytes |  |  |  |  |  |  |  |  |  |  |
| doWordAlignment |  |  |  |  |  |  |  |  |  |  |
| **Register** |  | | | | | | | | | |
| Register |  |  |  |  |  |  |  |  |  |  |
| Register |  |  |  |  |  |  |  |  |  |  |
| getName |  |  |  |  |  |  |  |  |  |  |
| getRegisterNumber |  |  |  |  |  |  |  |  |  |  |
| isInUse |  |  |  |  |  |  |  |  |  |  |
| setInUse |  |  |  |  |  |  |  |  |  |  |
| **Registers** |  | | | | | | | | | |
| Registers |  |  |  |  |  |  |  |  |  |  |
| getZeroRegister |  |  |  |  |  |  |  |  |  |  |
| getStackPointerRegister |  |  |  |  |  |  |  |  |  |  |
| getGlobalPointerRegister |  |  |  |  |  |  |  |  |  |  |
| getFramePointerRegister |  |  |  |  |  |  |  |  |  |  |
| getReturnAdressRegister |  |  |  |  |  |  |  |  |  |  |
| getUnusedRegister |  |  |  |  |  |  |  |  |  |  |
| getRegisterByNumber |  |  |  |  |  |  |  |  |  |  |
| freeRegister |  |  |  |  |  |  |  |  |  |  |
| freeAllRegister |  |  |  |  |  |  |  |  |  |  |
| getV0 |  |  |  |  |  |  |  |  |  |  |
| getV1 |  |  |  |  |  |  |  |  |  |  |
| getA0 |  |  |  |  |  |  |  |  |  |  |
| getA1 |  |  |  |  |  |  |  |  |  |  |
| getA2 |  |  |  |  |  |  |  |  |  |  |
| getA3 |  |  |  |  |  |  |  |  |  |  |
| getArrayLengthRegister |  |  |  |  |  |  |  |  |  |  |
| **Segment** |  | | | | | | | | | |
| Segment |  |  |  |  |  |  |  |  |  |  |
| toString |  |  |  |  |  |  |  |  |  |  |
| **StackPointerRegister** |  | | | | | | | | | |
| StackPointerRegister |  |  |  |  |  |  |  |  |  |  |
| allocateBytes |  |  |  |  |  |  |  |  |  |  |
| doWordAlignment |  |  |  |  |  |  |  |  |  |  |
| freeBytes |  |  |  |  |  |  |  |  |  |  |
| getCurrentOffset |  |  |  |  |  |  |  |  |  |  |
| requestNewOffset |  |  |  |  |  |  |  |  |  |  |
| deleteCurrentOffset |  |  |  |  |  |  |  |  |  |  |
| **SyscallCode** |  | | | | | | | | | |
| SyscallCode |  |  |  |  |  |  |  |  |  |  |
| getValue |  |  |  |  |  |  |  |  |  |  |
| toString |  |  |  |  |  |  |  |  |  |  |