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# Contents

## **1.1 [konscious.security.cryptography.argon2](#) 1.3.1**

1.1.1 Available under license

## **1.2 [amazon.lambda.serialization.systemtextjson](#) 2.4.4**

1.2.1 Available under license

## **1.3 [amazon-lambda-core](#) 2.5.0**

1.3.1 Available under license

## **1.4 [microsoft.aspnetcore.http](#) 2.3.0**

1.4.1 Available under license

## **1.5 [dapperlib-dapper](#) 2.1.66**

1.5.1 Available under license

## **1.6 [json.net](#) 13.0.4**

1.6.1 Available under license

## **1.7 [ssh-net-library](#) 2025.1.0**

1.7.1 Available under license

## **1.8 [amazon-lambda-apigatewayevents](#) 2.7.3**

1.8.1 Available under license

## **1.9 [microsoft.extensions.options](#) 10.0.1**

1.9.1 Available under license

## **1.10 [microsoft.extensions.caching.abstractions](#) 10.0.1**

1.10.1 Available under license

## **1.11 [microsoft.extensions.options.configurationextensions](#) 10.0.1**

1.11.1 Available under license

## **1.12 [microsoft.extensions.dependencyinjection](#) 10.0.1**

1.12.1 Available under license

## **1.13 [microsoft.data.sqlclient](#) 6.1.3**

1.13.1 Available under license

**1.14 microsoft.extensions.hosting 10.0.1**

1.14.1 Available under license

**1.15 aws sdk for .net 4.0.3.5**

1.15.1 Available under license

**1.16 system.io.pipelines 10.0.1**

1.16.1 Available under license

**1.17 awssdk - aws security token service 4.0.5.2**

1.17.1 Available under license

**1.18 microsoft.extensions.configuration 10.0.1**

1.18.1 Available under license

**1.19 microsoft.extensions.hosting.abstractions 10.0.1**

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**1.20 amazon-lambda-apigatewayevents 2.7.2**

1.20.1 Available under license

**1.21 awssdk - aws key management service 4.0.8.2**

1.21.1 Available under license

**1.22 microsoft.extensions.filesystemglobbing 10.0.1**

1.22.1 Available under license

**1.23 awssdk - amazon simple systems management service 4.0.6.5**

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Aspects of base64 encoding / decoding are based on algorithm described in "Base64 encoding and decoding at almost the speed of a memory copy", Wojciech Mua and Daniel Lemire. <https://arxiv.org/pdf/1910.05109.pdf>

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Bit Twiddling Hacks

By Sean Eron Anderson  
seander@cs.stanford.edu

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Aspects of base64 encoding / decoding are based on algorithm described in "Base64 encoding and decoding at almost the speed of a memory copy", Wojciech Mua and Daniel Lemire. <https://arxiv.org/pdf/1910.05109.pdf>

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implementations of computing and using the "magic number" approach to dividing by constants, including codegen instructions. The unsigned division incorporates the "round down" optimization per `ridiculous_fish`.

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#### Bit Twiddling Hacks

By Sean Eron Anderson

seander@cs.stanford.edu

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By Sean Eron Anderson

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implementations of computing and using the "magic number" approach to dividing by constants, including codegen instructions. The unsigned division incorporates the "round down" optimization per `ridiculous_fish`.

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<https://github.com/Metalnem/dotnet-fuzzers>

<https://github.com/Metalnem/libfuzzer-dotnet>

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- xxHash homepage: <https://www.xxhash.com>
- xxHash source repository: <https://github.com/Cyan4973/xxHash>

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implementations of computing and using the "magic number" approach to dividing by constants, including codegen instructions. The unsigned division incorporates the "round down" optimization per `ridiculous_fish`.

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### 4.0.5.2

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implementations of computing and using the "magic number" approach to dividing by constants, including codegen instructions. The unsigned division incorporates the "round down" optimization per `ridiculous_fish`.

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## 1.19

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## 10.0.1

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Aspects of base64 encoding / decoding are based on algorithm described in "Base64 encoding and decoding at almost the speed of a memory copy", Wojciech Mua and Daniel Lemire. <https://arxiv.org/pdf/1910.05109.pdf>

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seander@cs.stanford.edu

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<https://github.com/aappleby/smhasher/blob/master/src/MurmurHash3.cpp>

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[https://github.com/intel/isa-l/blob/33a2d9484595c2d6516c920ce39a694c144ddf69/crc/crc32\\_ieee\\_by4.asm](https://github.com/intel/isa-l/blob/33a2d9484595c2d6516c920ce39a694c144ddf69/crc/crc32_ieee_by4.asm)  
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<https://github.com/BurntSushi/aho-corasick>

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Aspects of base64 encoding / decoding are based on algorithm described in "Base64 encoding and decoding at almost the speed of a memory copy", Wojciech Mua and Daniel Lemire. <https://arxiv.org/pdf/1910.05109.pdf>

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