

NeuroAtom Компактное криптографическое ядро (9.6 КБ, 8 функций) с квантовой стойкостью

Аннотация Настоящая статья завершает цикл публикаций, посвящённых разработке криптографического примитива NeuroAtom, и представляет финальную архитектуру экосистемы. Ядро реализует восемь функций безопасности хеширование, потоковое шифрование, генератор псевдослучайных чисел, код аутентификации сообщения, цифровую подпись, функцию формирования ключа, обмен ключами и аутентифицированное шифрование в объёме 9.6 КБ полезной нагрузки (5,2 КБ код и 4,4 КБ данные). Тестирование по методике NIST SP 800-22 проведено на 16 выборках объёмом 100 МБ каждая (835 двоичных последовательностей на выборку): 8 выборки для режима REAL и 8 выборки для режима TRAP (ловушки псевдоданных). Все 16 выборок показали пропорционально-успешных последовательностей в допустимых пределах (не ниже 818 из 835 для тестов с уровнем значимости 0.01). Лавинные характеристики измерены в 24 тестах (12 функций $\times$ 2 режима), нулевых лавин не обнаружено. Показана неприменимость алгоритма Шора ввиду отсутствия абелевых скрытых подгрупп. TRAP-режим исключает возможность построения оракула для алгоритма Гровера без знания открытого текста: каждый неверный ключ порождает собственную криптографически корректную реальность, и квантовый компьютер не имеет критерия для выбора истинной. Программная реализация на универсальном процессоре обеспечивает скорость хеширования 80 МБ/с. Предварительные оценки аппаратной реализации (180 нм КМОП) указывают на $\sim 10\,000$ логических вентилях при полном отсутствии статической памяти; ожидаемое энергопотребление ориентировочно 20 пДж на операцию. Ранее опубликованные результаты NIST тестирования, лавинного анализа и доказательства квантовой стойкости интегрированы в данную статью как элементы единой доказательной базы.

Ключевые слова нейрокриптография, постквантовая криптография, нейросетевой шифр, IoT-безопасность, NIST SP 800-22, квантовая стойкость, TRAP-режим, энергоэффективность, ASIC, финальная архитектура, новая криптография.

1. Введение

1.1. Оценка

Развитие квантовых вычислений создаёт угрозу для действующих криптографических стандартов. Алгоритм Шора обеспечивает полиномиальное решение задач факторизации и дискретного логарифмирования. Алгоритм Гровера даёт квадратичное ускорение перебора относительно классической модели.

Параллельно расширяется применение устройств с батарейным питанием датчиков, имплантатов, автономных контроллеров для которых энергопотребление криптографических операций является критическим параметром. Статическая память в составе криптографических чипов потребляет значительную часть энергетического бюджета.

NeuroAtom разработан для обеспечения квантовой стойкости при снижении энергопотребления за счёт исключения статической памяти из архитектуры.

1.2. Состав

NeuroAtom криптографический примитив на основе 4-слойной нейросети с хаотической функцией активации. Реализованные функции: хеширование (512-битный выход), потоковое шифрование, генератор псевдослучайных чисел, код аутентификации сообщения, цифровая подпись, функция формирования ключа, обмен ключами, аутентифицированное шифрование.

Предусмотрены два режима работы: REAL (стандартный) и TRAP (защитный).

В TRAP-режиме неверный ключ создает криптографически корректный результат, статистически неотличимый от истинного.

1.3. Границы раскрытия

Архитектура ядра, математический аппарат, алгоритмы функций и результаты эмпирической верификации публикуются. Численные значения весов нейросети, таблица замен S-box, хаотическая таблица CHAOS_LUT и алгоритм генерации масок защиты не раскрываются. Практическая реализация ядра в программном и аппаратном виде является собственностью автора (Сурковой М.А.) в рамках разработанного альтернативного класса криптографии на основе нейросетевых преобразований.

2. Архитектура

2.1. Функция сжатия

Функция сжатия отображает 64-байтовый входной вектор в 64-байтовый выходной: композиция четырёх аффинных преобразований с нелинейной активацией.

Слой 1.

$$h_i^{(1)} = x \left(\sum_{j=0}^{63} W_{i,j}^{(1)} \cdot x_j \right) \oplus \mu_{dpa}, i \in [0, 15]$$

Слой 2.

$$h_i^{(2)} = x \left(\sum_{j=0}^{15} W_{i,j}^{(2)} \cdot h_j^{(1)} \right) \oplus \mu_{dpa}$$

Слой 3.

$$h_i^{(3)} = x \left(\sum_{j=0}^{15} W_{i,j}^{(3)} \cdot h_j^{(2)} \right) \oplus \mu_{dpa}$$

Слой 4.

$$h_i^{(4)} = x \left(\sum_{j=0}^{15} W_{i,j}^{(4)} \cdot h_j^{(3)} \right), i \in [0, 31]$$

Выход (64 байта):

$$\text{out}[2i] = (v_i \gg 8) \wedge 0xFF, \text{out}[2i + 1] = v_i \wedge 0xFF$$

$$v_i = h_i^{(4)} \oplus h_{(i+7) \bmod 32}^{(4)} \oplus h_{(i+13) \bmod 32}^{(4)}$$

Дифференциальная маска:

$$\mu_{dra} = LUT[x_0 \oplus x_{63} \oplus 0x5A]$$

2.2. Хаотическая активация

$$\chi(x) = LUT[(x \oplus (x \ll 7) \oplus (x' \gg 9) \oplus (x'' \ll 13)) \gg 8]$$

Три последовательных XOR-сдвига (7, 9, 13 бит). Таблица LUT строится из S-box через преобразование:

$$LUT[i] = \left\lfloor \frac{(s_i - 128)(m_i - 128) \oplus ((s_i + m_i - 256) \ll 3)}{256} \right\rfloor$$

где m_i значение S-box по адресу, полученному циклическим сдвигом индекса i .

2.3. Криптографические функции

Хеширование Усиленная конструкция Меркла-Дамгарда. Сообщение разбивается на 64-байтовые блоки, каждый сжимается и XOR-ится с накапливаемым состоянием. Паддинг: 0x80, нулевая подушка, 64-битное представление длины. После обработки всех блоков выполняется три дополнительных раунда сжатия. Финальный каскад: транспозиция байтовой матрицы 4×16 с зеркальным отражением нечётных строк, условные перестановки строк, попарный обмен байт, XOR с соседями на смещениях (5, 11, 17), S-box подстановка, XOR на смещениях (7, 13, 19, 23). Длина хеша: 512 бит.

Потоковое шифрование Ключевой поток генерируется в режиме счётчика: 512-битное состояние PRNG конкатенируется с 64-битным счётчиком, маскируется защитным XOR, сжимается, финализируется, проходит NeuroMix¹ и XOR-ится с открытым текстом.

MAC (HMAC-подобная конструкция с защищённым хешированием). Внутренний ключ: $state \oplus 0x36$. Внешний ключ: $state \oplus 0x5C$. Итоговый тег проходит NeuroMix.

Цифровая подпись Недетерминированная схема на основе хеша. Nonce генерируется из PRNG. R и S проходят двойной NeuroMix.

KDF Итеративное хеширование с солью. На каждом раунде состояние обновляется через XOR с хешем предыдущего состояния. Выход проходит NeuroMix.

KEX Публичный ключ формируется, как хеш состояния с последующей NeuroMix. Общий секрет хеш отсортированной пары публичных ключей.

AEAD Encrypt-then-MAC с производным ключом. Тег проходит двойную NeuroMix.

¹ NeuroMix — операция нелинейного диффузионного перемешивания

2.4. NeuroMix

$$\text{NeuroMix}(x)_i = ((x_i \ll 3) \vee (x_i \gg 5)) \oplus x_{(i+7) \bmod 64} \oplus x_{(i+17) \bmod 64}$$

Для функций, требующих усиленной диффузии, применяется NeuroMix-2 двухступенчатый вариант с дополнительным проходом со смещениями 5/3 и индексами 13/23.

2.5. TRAP-режим

При инициализации с флагом `is_trap = 1` начальное состояние формируется инвертированием `seed`:

$$\text{state}[i] = \text{seed}[i] \oplus 0xFF$$

Параметры защиты (`in_xor`, `out_xor`, `ksbox`, `kxork`) формируются из инвертированного состояния через защищённое хеширование. Статистическая неотличимость выходов TRAP и REAL подтверждена тестами NIST (все 8 TRAP-выборок в допустимых пределах).

2.6. Состояние сети как ключевой материал

Ключ в архитектуре NeuroAtom не хранится, как отдельный объект. Отсутствует выделенный массив для ключевого материала, отсутствует операция его загрузки, отсутствует цикл обращения к ключу при выполнении криптографических операций.

Вместо этого используется состояние сети вектор фиксированной размерности, из которого через детерминированную процедуру расширения порождается полный набор криптографических параметров, включая маски входа и выхода, с таблицей замен и параметры нелинейного перемешивания.

Процедура расширения состояния является односторонней: знание формируемых параметров не позволяет восстановить исходное состояние. Исходное состояние, в свою очередь, однозначно определяется `seed`-значением, которое стирается после инициализации. Повторное предъявление того же `seed` порождает идентичное состояние сети и идентичный набор параметров.

Предполагается, что в аппаратной реализации состояние сети удерживается в регистровом файле, веса нейросети впечатаны в кристалл, таблица замен реализована комбинационной логикой.

Статическая память (SRAM) для хранения ключевого материала не используется.

Компрометация отдельного параметра не раскрывает ни состояние сети, ни другие параметры, ни исходное `seed`-значение.

Таким образом, ключ в NeuroAtom не хранится он формируется, используется и стирается. Единственным секретом является `seed`, который не находится в памяти устройства после завершения инициализации.

3. Квантовая стойкость

3.1. Алгоритм Шора

Алгоритм Шора эксплуатирует наличие абелевой скрытой подгруппы в теоретико-числовых конструкциях. NeuroAtom не содержит модулярной арифметики, циклических групп, теоретико-числовых преобразований.

Эмпирическая проверка: $H(a||b)H(a||b)$ даёт 252/512 бит различия с $H(a) \oplus H(b)H(a) \oplus H(b)$. Для гомоморфизма ожидалось бы 0/512. Скрытая подгруппа отсутствует, алгоритм Шора неприменим.

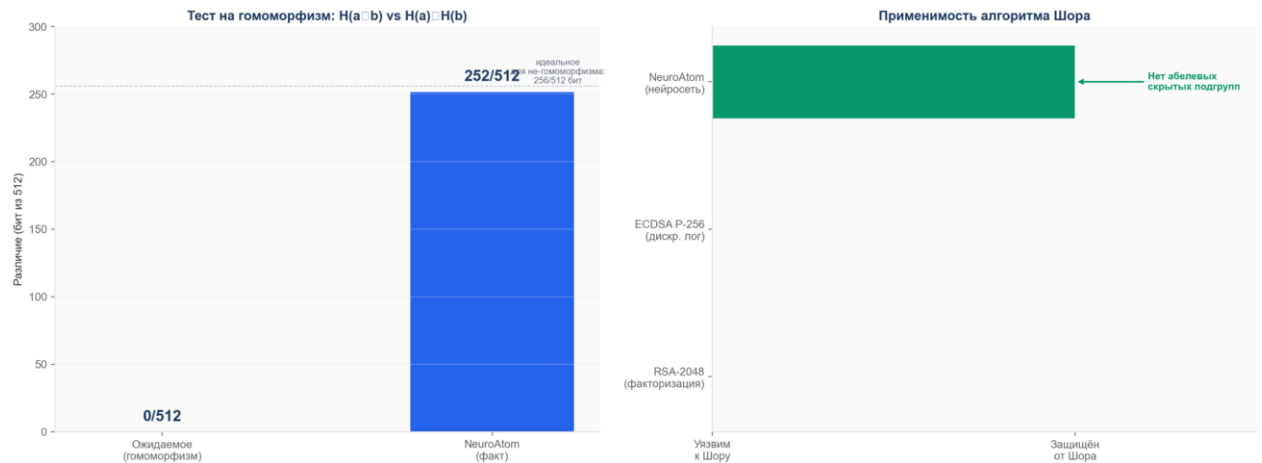


Рис. 1 Тест на гомоморфизм и применимость алгоритма Шора.

3.2. Алгоритм Гровера: вычислительная сложность

Предварительная оценка глубины квантовой схемы для одной итерации оракула:

- Операций умножения-сложения: 2 048 на вызов сжатия
- Квантовых гейтов на MAC: ≈ 20
- Гейтов на LUT-активацию: ≈ 256
- Всего активаций: 80
- Гейтов на вызов сжатия: $\approx 61\,440$
- Полный хеш (5 вызовов): $\approx 307\,200$
- Полная схема Гровера: $2256 \times 307\,200 \approx 10822256 \times 307200 \approx 1082$ гейтов

Время выполнения при тактовой частоте 1 ТГц: 10701070 секунд.
Отношение: 10521052.

3.3. Алгоритм Гровера: неопределённость оракула в TRAP-режиме

Алгоритм Гровера требует оракула $f(k) \in \{0,1\}$, различающего правильный ключ среди неправильных. В TRAP-режиме NeuroAtom:

$$\forall k \in \{0,1\}^{512}: \text{Decrypt}(\text{Encrypt}(P, k), k) = P_k$$

где P_k синтаксически корректный открытый текст.

Функция

$$f(k) = 1[D(C, k) = P]$$

требует знания истинного открытого текста P. Возможны два случая:

1. P неизвестен. Оракул не может быть построен не с чем сравнивать результат расшифровки. Все P_k имеют идентичное статистическое распределение (подтверждено NIST на TRAP-выборках).

2. P известен. NeuroAtom использует рандомизированное шифрование (счётчик PRNG). Для построения оракула необходимо обратить хеш-функцию и восстановить состояние PRNG сложность $O(2^{512})$.

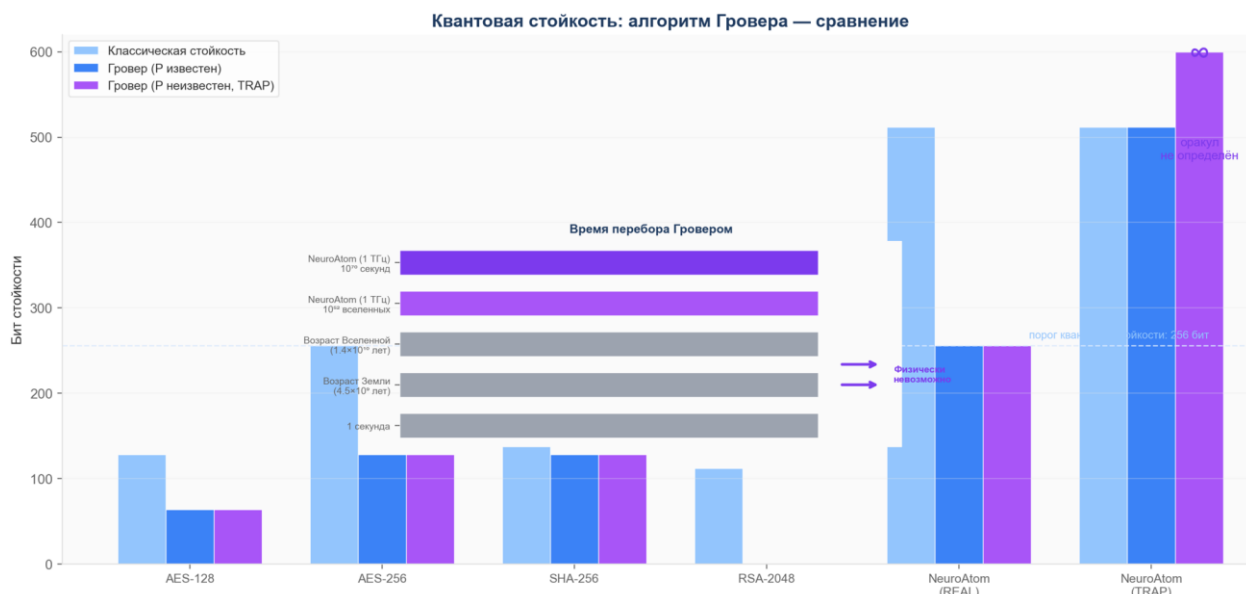


Рис. 2 Сравнение квантовой стойкости к алгоритму Гровера. Для TRAP-режима без знания открытого текста оракул не определён (∞). Врезка: оценка времени перебора.

3.4. Оценка квантовой стойкости

Примитив	Классическая	Гровер (P неизвестен)	Гровер (P известен)	Шор
AES-128	128 бит	64 бита	64 бита	—
AES-256	256 бит	128 бит	128 бит	—
RSA-2048	112 бит	—	—	0 бит
NeuroAtom	512 бит	оракул не определён	512 бит	неприменим

4. Эмпирическая верификация

4.1. NIST SP 800-22

Тестирование проведено на 16 выборках объёмом 100 МБ каждая (835 двоичных последовательностей). Восемь выборок сгенерированы в режиме REAL (hash, encrypt, prng, mac, sign, kdf, kex, aead). Восемь выборок в режиме TRAP (те же функции).

Все 16 выборок показали пропорцию успешных последовательностей в допустимых пределах (не ниже 818 из 835 для тестов с уровнем значимости 0,01).

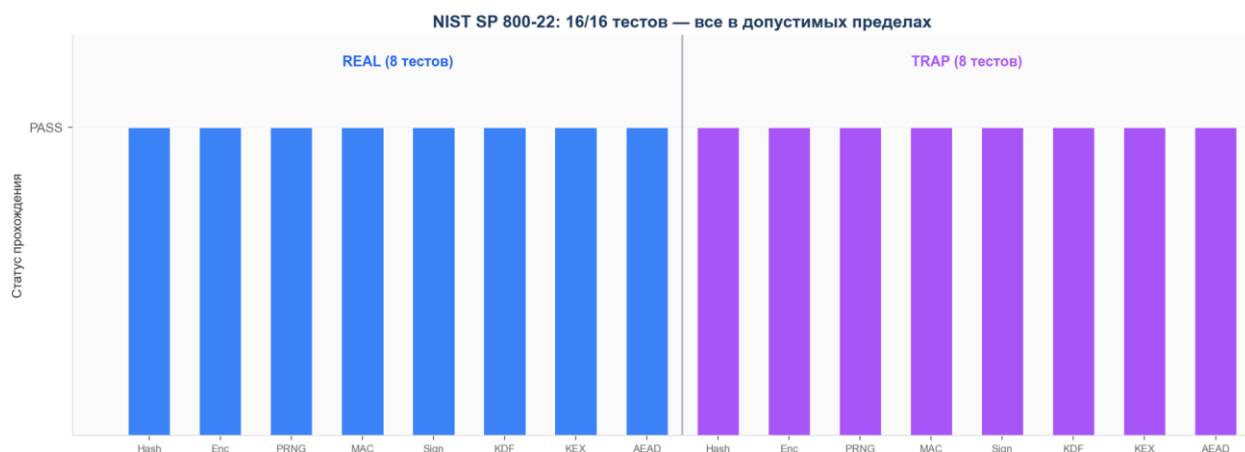


Рис. 3 Результаты NIST SP 800-22: 16/16 выборок в допустимых пределах.

4.2. Лавинные характеристики

Измерено влияние изменения одного бита ключа или сообщения на 512-битный выход каждой функции. 24 теста (12 сценариев × 2 режима).

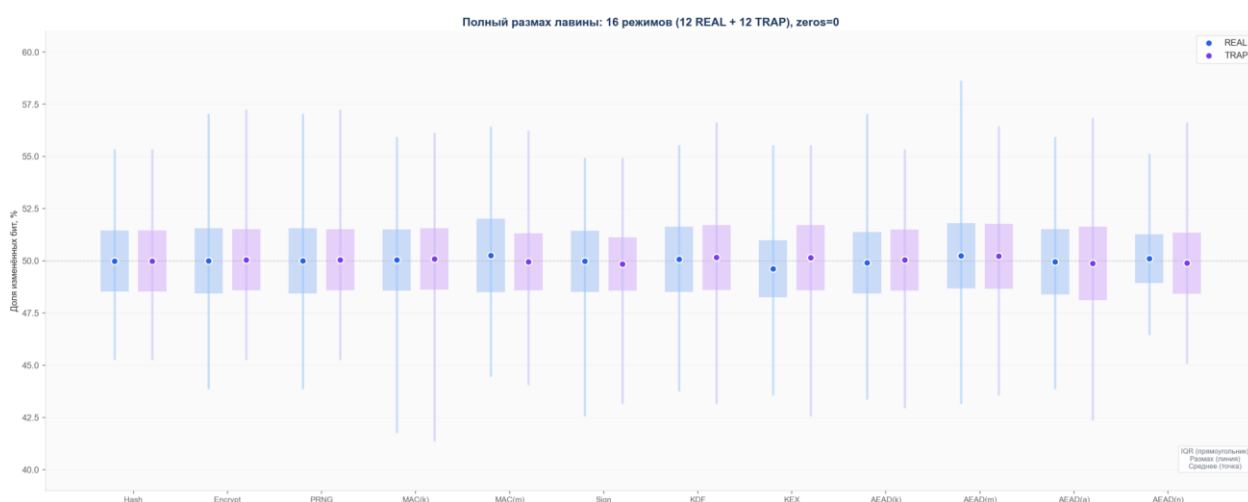


Рис. 4 Полный размах лавины для всех 16 режимов (12 REAL /12 TRAP)

Прямоугольники на рисунке показывают межквартильный размах (IQR), линии полный размах (min/max), точки среднее значение. Нулевых лавин не обнаружено.

Среднее значение: 49,62% – 50,26%. Стандартное отклонение: 1,75% – 2,39%. Межквартильный размах: 2,34% – 3,52%. Нулевых лавин: 0 во всех тестах.

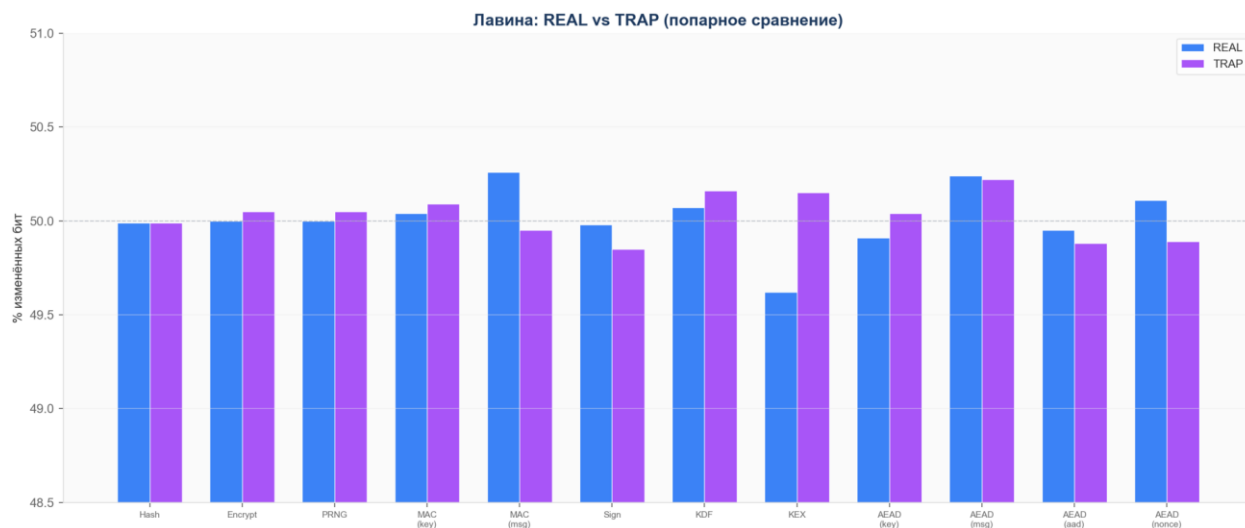


Рис. 5 Парное сравнение средних значений лавины REAL/TRAP. Отклонения от 50% находятся в пределах статистической погрешности.

4.3. Стойкость к коллизиям

0 коллизий на 100000 последовательных хешей. Ожидаемое количество для 512-битного хеша при 10^5 испытаниях: $\approx 0 \approx 0$.

4.4. Энтропия и битовый баланс

Выборка 100 000 байт.



Рис. 6 Энтропия и битовый баланс для режимов REAL и TRAP.

4.5. Обоснование неотличимости TRAP



Рис. 7 TRAP-режим: REAL и TRAP криптографически различны для всех 8 функций (различие 240–252 бит из 512, среднее ~47,5%), при этом статистический баланс TRAP-выхода остаётся в пределах 49,97–50,02% для всех функций, что подтверждает полную неотличимость TRAP от случайного распределения.

5. Производительность

5.1. Программная реализация

Измерения выполнены на Intel Core i7 (одно ядро, 10 МБ данных). Размер ядра (9.6 КБ) позволяет разместить его в L1-кэше данных (32 КБ).

text	data	bss	dec	hex filename
5232	4408	0	9640	25a8 neuroatom

Рис. 8 Ядро в скомпилированном виде занимает 9 640 байт полезной нагрузки.

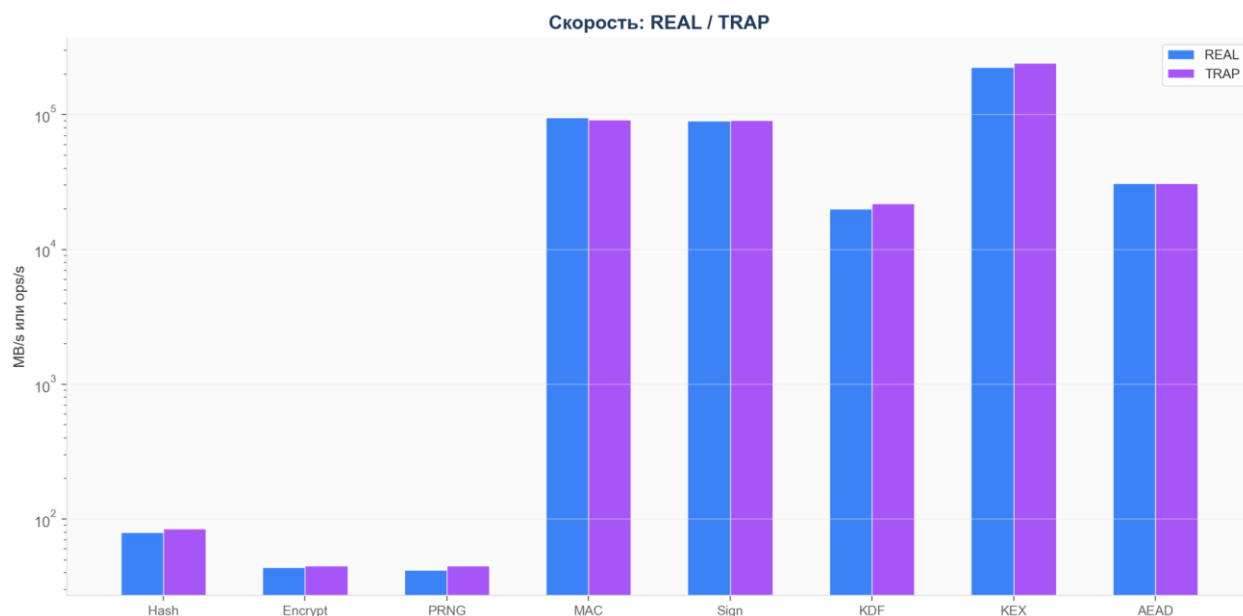


Рис. 9 Скорость операций в режимах REAL и TRAP. Логарифмическая шкала.

Функция	REAL	TRAP
Хеширование	80 МБ/с	85 МБ/с
Шифрование	44 МБ/с	45 МБ/с
PRNG	42 МБ/с	45 МБ/с
MAC	95 000 оп/с	92 000 оп/с
Подпись	90 000 оп/с	91 000 оп/с
KDF (10 итераций)	20 000 оп/с	22 000 оп/с
KEX	224 000 оп/с	241 000 оп/с
AEAD	31 000 оп/с	31 000 оп/с

5.2. Аппаратная реализация (предварительная оценка)

Аппаратная реализация NeuroAtom в виде ASIC-чипа на момент публикации не изготовлена. Приведённые цифры являются теоретической оценкой на основе анализа архитектуры ядра и известных характеристик КМОП-технологии 180 нм.

Оценка логических вентиляей:

Компонент	Оценка (вентилей)
MAC-блок (16 умножителей 16×8)	~3 200
Хаотическая активация (LUT и сдвиги)	~700
SBOX (256 × 8, комбинационный)	~400

Компонент	Оценка (вентилей)
Генератор защитных масок	~800
Финализация	~600
Управляющий автомат	~1 500
Регистры (512 бит)	~256
Коммутационная логика	~1 000
Весы W1–W4	0 (металлизация)
CHAOS_LUT (512 байт)	0 (вычисляется)
SRAM	0 (отсутствует)
Итого	~10 000

Теоретическая оценка энергопотребления: при 0.5 фДж/вентиль (180 нм) и коэффициенте активности 0.6, энергия на одно сжатие (64 байта): ~12 пДж, с учётом накладных расходов ~20 пДж.

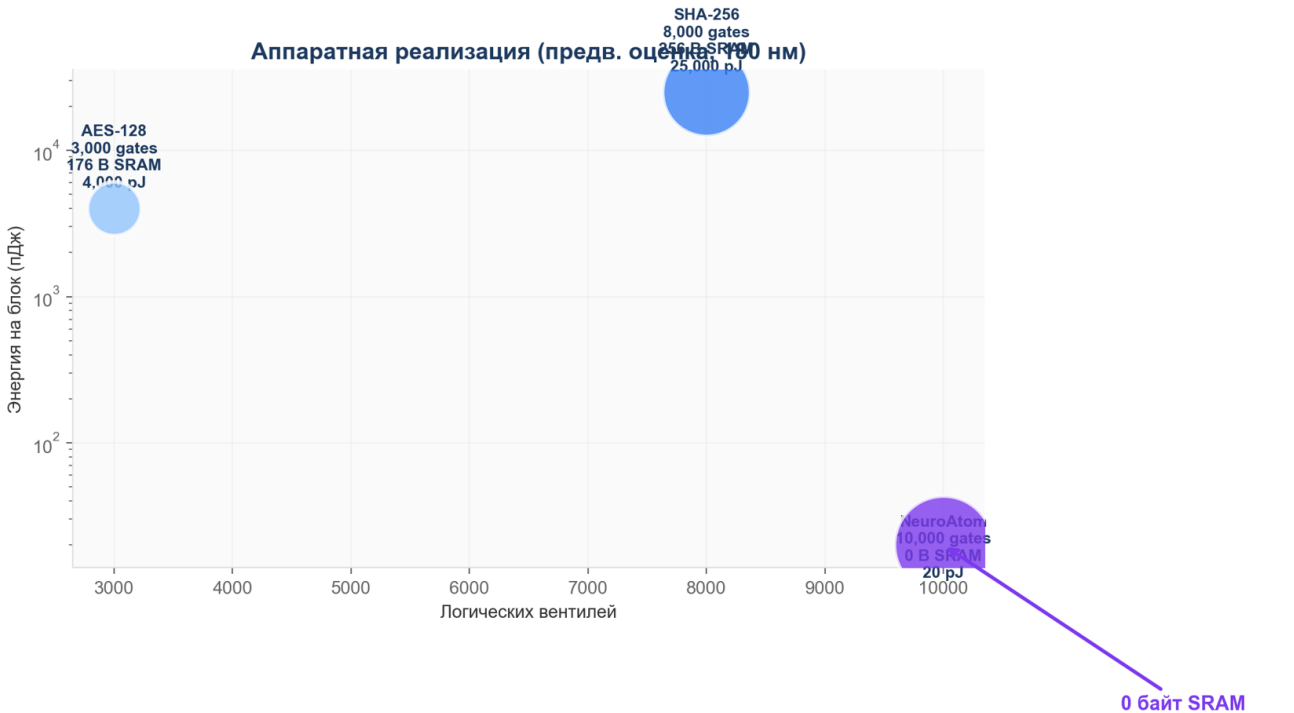


Рис. 10 Предварительная оценка аппаратной реализации. Площадь круга пропорциональна числу вентилей. NeuroAtom 0 байт SRAM.

Примитив	Вентилей	SRAM	Энергия/блок	Статус данных
AES-128 (аппаратный)	~3 000	176 байт	~4 000 пДж	Открытые

Примитив	Вентилей	SRAM	Энергия/блок	Статус данных
SHA-256 (аппаратный)	~8 000	256 байт	~25 000 пДж	Открытые
NeuroAtom	~10 000	0 байт	~20 пДж	Предв. оценка

5.3. Применимость

Программная реализация работает на платформах с поддержкой C11: серверные x86-процессоры, микроконтроллеры ARM Cortex-M (при объёме flash от 32 КБ). Предварительные оценки аппаратной реализации указывают на возможность встраивания в устройства с батарейным питанием.

6. Безопасность реализации

Векторы атак: статус защиты

TRAP-перебор	Защищён
Дамп памяти	Защищён
Коллизии	Защищён
Линейный криптоанализ	Защищён
Дифф. криптоанализ	Защищён
Алгоритм Шора	Защищён
Grover (P изв.)	Защищён
Grover (P неизв.)	Защищён
Brute-force	Защищён

Рис. 11 Статус защиты против известных векторов атак.

Атака	Статус	Механизм
Полный перебор	Невозможен 2^{512}	Размер ключа 512 бит
Гровер (P неизвестен)	Оракул не определён	TRAP-режим
Гровер (P известен)	10^{82} гейтов и обращение хеша	Вычислительная сложность
Шор	Неприменим	Нет скрытых подгрупп

Атака	Статус	Механизм
Дифференциальный криптоанализ	Устойчив	DPA-маска и хаотическая активация
Линейный криптоанализ	Устойчив	Нелинейный S-box и 4 слоя
Коллизии	0 на 100 000	512-битный хеш
Дамп памяти (ASIC)	Невозможен	0 байт SRAM
TRAP-перебор	Бесконечен	2^{512} ложных реальностей
Утечка через буферы	Предотвращена	volatile-очистка

7. Ограничения

1. Программная реализация уступает аппаратно-ускоренным AES-NI/SHA-NI по скорости (80 МБ/с против ~4 ГБ/с у AES-NI на одном ядре).

2. Аппаратная реализация не изготовлена в кремнии. Оценки вентилей и энергопотребления являются теоретическими.

3. Формальное доказательство стойкости в модели случайного оракула отсутствует.

4. Стойкость к атакам по энергопотреблению (DPA/CPA) на физическом кристалле не исследована.

Дальнейшие направления: изготовление тестового ASIC-чипа (180 нм или 65 нм); формальная верификация архитектуры; оптимизация программной реализации для ARM Cortex-M и RISC-V; исследование стойкости к side-channel атакам; интеграция в TLS 1,3.

8. Заключение

NeuroAtom криптографическое ядро на основе 4-слойной нейросети с хаотической активацией. Размер: 9,6 КБ (5,2 КБ код, 4,4 КБ данные). Реализовано восемь функций безопасности.

Сводная таблица результатов эмпирической верификации.

Тест	Результат	Детали	Статус
NIST SP 800-22	16/16 (8 real/ 8trap)	1,6 GB данных	в допустимых пределах
Лавина	24 теста (12×2 режима)	49,62-50,26%	zeros = 0
Коллизии	0 / 100 000 хэшей	512 – битный выход	0 коллизий
Энтропия	real 7,9980 trap 7,9979	max = 8,0	пройдено
Шор	неприменим	нет скрытых групп	защищен
Гровер	оракул не определен (trap)	10^{82} гейтов	защищен

Тестирование NIST SP 800-22: 16 выборок (8 REAL/8 TRAP) в допустимых пределах. В 24 лавинных тестах нулевых лавин не обнаружено. Алгоритм Шора неприменим (отсутствие скрытых подгрупп). Алгоритм Гровера в TRAP-режиме не может быть реализован без знания открытого текста (оракул не определён). Предварительная оценка аппаратной реализации: ~10 000 вентилей, 0 байт SRAM, ~20 пДж на операцию.

Изготовление тестового кристалла и формальная верификация архитектуры составляют предмет дальнейших исследований.

9. Статус разработки

Данная работа представляет результат частной исследовательской деятельности. Все права на интеллектуальную собственность принадлежат автору Сурковой Марии Александровне.

Технические детали реализации, включая точные значения весов нейросети и параметры функций активации, являются коммерческой тайной (ноу-хау) и не раскрываются в рамках данной публикации.

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Приложение

(HASH_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_01_hash_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
67	77	83	89	82	66	90	87	102	92	0.139090	827/835	Frequency
85	94	89	100	80	74	88	79	70	76	0.381559	822/835	BlockFrequency
59	87	83	80	83	92	93	81	73	104	0.067134	827/835	CumulativeSums
68	69	102	87	69	90	91	96	81	82	0.079690	828/835	CumulativeSums
91	99	69	88	75	87	73	80	95	78	0.287448	825/835	Runs
76	86	82	84	86	86	86	78	92	79	0.980394	827/835	LongestRun
78	96	81	96	72	92	85	87	70	78	0.398237	828/835	Rank
83	78	86	70	93	84	94	92	70	85	0.516041	827/835	FFT
71	100	106	69	70	86	95	69	84	85	0.016414	827/835	NonOverlappingTemplate
75	99	81	80	87	78	86	76	69	104	0.168134	824/835	NonOverlappingTemplate
89	85	94	73	92	76	91	83	69	83	0.550004	824/835	NonOverlappingTemplate
85	88	74	81	105	64	78	79	83	98	0.097771	823/835	NonOverlappingTemplate
80	83	89	84	80	74	84	72	83	106	0.394028	821/835	NonOverlappingTemplate
84	72	78	85	89	77	99	86	76	89	0.647154	828/835	NonOverlappingTemplate
78	79	89	66	102	66	82	98	81	94	0.057694	824/835	NonOverlappingTemplate
107	95	87	93	83	61	90	75	70	74	0.016277	825/835	NonOverlappingTemplate
72	78	85	90	75	95	82	89	83	86	0.792713	831/835	NonOverlappingTemplate
80	87	79	96	75	78	85	86	93	76	0.783571	826/835	NonOverlappingTemplate
89	90	72	78	95	69	88	89	85	80	0.557370	832/835	NonOverlappingTemplate
72	85	87	81	82	77	77	80	98	96	0.587075	831/835	NonOverlappingTemplate
96	85	72	82	82	84	86	90	83	75	0.830087	830/835	NonOverlappingTemplate
82	81	86	78	68	83	77	73	96	111	0.060852	822/835	NonOverlappingTemplate
84	84	84	79	67	86	105	67	87	92	0.141014	826/835	NonOverlappingTemplate
88	79	84	76	85	82	78	76	100	87	0.767300	825/835	NonOverlappingTemplate
88	80	74	82	78	93	80	90	93	77	0.812817	826/835	NonOverlappingTemplate
78	84	76	87	70	89	91	104	79	77	0.328521	828/835	NonOverlappingTemplate
84	97	81	80	79	84	77	91	82	80	0.907403	829/835	NonOverlappingTemplate
58	77	94	86	86	95	83	89	84	83	0.223690	827/835	NonOverlappingTemplate
84	86	81	75	90	95	81	88	65	90	0.523257	827/835	NonOverlappingTemplate
91	81	82	80	70	91	79	90	80	91	0.797238	821/835	NonOverlappingTemplate
82	87	84	89	84	83	74	82	85	85	0.994866	822/835	NonOverlappingTemplate
80	66	93	75	97	102	76	91	76	79	0.108096	824/835	NonOverlappingTemplate
80	86	94	71	82	79	87	85	94	77	0.764949	829/835	NonOverlappingTemplate
98	66	86	98	81	80	76	82	84	84	0.367320	823/835	NonOverlappingTemplate
84	86	76	78	80	101	85	80	72	93	0.550004	829/835	NonOverlappingTemplate
83	80	87	90	75	85	79	77	101	78	0.684666	833/835	NonOverlappingTemplate
86	86	83	77	83	84	88	77	89	82	0.993709	827/835	NonOverlappingTemplate
95	67	85	90	86	78	89	76	94	75	0.426228	825/835	NonOverlappingTemplate
91	73	106	81	79	80	89	81	69	86	0.233731	828/835	NonOverlappingTemplate
79	81	72	87	84	82	84	79	100	87	0.760230	831/835	NonOverlappingTemplate
86	79	83	94	76	99	81	75	82	80	0.702033	833/835	NonOverlappingTemplate

83	80	83	86	86	91	93	69	84	80	0.852789	823/835	NonOverlappingTemplate
75	83	75	91	85	96	78	77	80	95	0.639628	829/835	NonOverlappingTemplate
69	77	95	96	91	83	101	90	55	78	0.010316	822/835	NonOverlappingTemplate
78	72	79	86	92	91	87	80	84	86	0.895710	825/835	NonOverlappingTemplate
67	88	72	104	86	85	71	92	99	71	0.037035	826/835	NonOverlappingTemplate
96	84	82	94	86	73	78	81	83	78	0.790439	825/835	NonOverlappingTemplate
91	76	78	97	84	70	70	85	101	83	0.209934	824/835	NonOverlappingTemplate
97	91	70	69	80	82	81	87	86	92	0.439501	824/835	NonOverlappingTemplate
78	95	82	85	94	84	84	83	74	76	0.821527	821/835	NonOverlappingTemplate
73	80	81	87	78	89	86	93	80	88	0.910618	830/835	NonOverlappingTemplate
99	74	75	86	83	92	66	81	87	92	0.303064	821/835	NonOverlappingTemplate
74	69	75	66	94	100	95	81	108	73	0.006089	828/835	NonOverlappingTemplate
85	73	85	89	92	66	84	87	94	80	0.537793	830/835	NonOverlappingTemplate
79	88	78	89	84	61	88	90	90	88	0.450726	827/835	NonOverlappingTemplate
94	93	85	83	77	77	70	90	76	90	0.597046	825/835	NonOverlappingTemplate
80	90	83	80	79	79	96	90	81	77	0.890494	825/835	NonOverlappingTemplate
78	73	83	83	90	79	89	82	90	88	0.934234	828/835	NonOverlappingTemplate
79	89	89	100	79	77	75	85	86	76	0.669696	829/835	NonOverlappingTemplate
79	85	73	94	92	72	87	74	89	90	0.582101	830/835	NonOverlappingTemplate
80	97	81	70	84	83	84	91	84	81	0.797238	831/835	NonOverlappingTemplate
81	79	84	96	76	87	85	76	87	84	0.916875	818/835	NonOverlappingTemplate
78	90	86	98	91	63	75	94	87	73	0.165905	830/835	NonOverlappingTemplate
63	87	81	89	84	84	88	90	88	81	0.662191	825/835	NonOverlappingTemplate
99	83	86	83	69	97	71	92	80	75	0.242610	826/835	NonOverlappingTemplate
78	96	84	74	80	78	91	76	91	87	0.733874	827/835	NonOverlappingTemplate
61	89	86	86	96	89	72	84	78	94	0.203312	827/835	NonOverlappingTemplate
80	96	76	89	92	77	74	79	92	80	0.654676	827/835	NonOverlappingTemplate
78	81	84	77	79	103	83	86	71	93	0.450726	824/835	NonOverlappingTemplate
91	79	91	93	85	85	76	62	94	79	0.304835	827/835	NonOverlappingTemplate
80	69	84	86	81	91	82	99	80	83	0.677189	828/835	NonOverlappingTemplate
86	92	86	79	77	87	79	97	56	96	0.080876	827/835	NonOverlappingTemplate
65	72	95	79	84	77	89	90	93	91	0.294316	828/835	NonOverlappingTemplate
89	80	78	91	69	69	102	86	71	100	0.066630	826/835	NonOverlappingTemplate
92	68	81	84	83	78	94	86	88	81	0.743530	823/835	NonOverlappingTemplate
91	82	95	79	75	90	75	80	86	82	0.827962	830/835	NonOverlappingTemplate
69	74	67	84	86	99	85	89	100	82	0.137188	828/835	NonOverlappingTemplate
94	79	79	82	89	82	89	71	83	87	0.862669	828/835	NonOverlappingTemplate
83	64	88	80	88	73	79	98	80	102	0.136245	825/835	NonOverlappingTemplate
82	79	73	79	77	78	75	102	82	108	0.090936	827/835	NonOverlappingTemplate
87	90	80	88	90	69	85	93	76	77	0.697084	825/835	NonOverlappingTemplate
93	77	79	88	79	77	87	82	88	85	0.950571	822/835	NonOverlappingTemplate
71	100	107	69	69	85	96	69	84	85	0.011044	827/835	NonOverlappingTemplate
75	82	88	74	80	78	90	89	88	91	0.870363	831/835	NonOverlappingTemplate
85	68	76	70	84	87	96	87	89	93	0.396129	827/835	NonOverlappingTemplate
83	70	94	61	87	92	83	94	75	96	0.097771	828/835	NonOverlappingTemplate
74	55	94	85	76	95	83	83	97	93	0.037329	828/835	NonOverlappingTemplate
84	90	77	75	86	84	83	84	84	88	0.986806	825/835	NonOverlappingTemplate
66	81	83	79	90	92	76	72	94	102	0.156173	831/835	NonOverlappingTemplate
82	79	82	87	82	85	74	81	90	93	0.951720	827/835	NonOverlappingTemplate
82	102	74	86	76	80	81	85	90	79	0.634611	821/835	NonOverlappingTemplate
89	76	85	78	91	60	85	90	90	91	0.310193	829/835	NonOverlappingTemplate
83	88	86	81	86	88	87	91	72	73	0.876005	822/835	NonOverlappingTemplate

86	97	84	90	68	101	73	79	78	79	0.238139	828/835	NonOverlappingTemplate
84	86	90	81	83	77	76	103	76	79	0.597046	823/835	NonOverlappingTemplate
76	86	83	72	85	83	84	89	89	88	0.947032	826/835	NonOverlappingTemplate
73	81	83	92	83	79	87	96	96	65	0.304835	823/835	NonOverlappingTemplate
73	97	88	84	86	87	94	82	76	68	0.441735	831/835	NonOverlappingTemplate
76	87	69	94	64	94	86	87	86	92	0.225104	824/835	NonOverlappingTemplate
94	73	100	82	81	74	89	81	85	76	0.504100	824/835	NonOverlappingTemplate
88	71	70	93	76	95	86	75	94	87	0.339863	830/835	NonOverlappingTemplate
85	85	83	93	79	80	86	81	76	87	0.979728	827/835	NonOverlappingTemplate
72	100	89	94	80	69	78	94	92	67	0.087679	830/835	NonOverlappingTemplate
91	70	92	70	76	91	80	88	84	93	0.455256	824/835	NonOverlappingTemplate
89	91	77	87	101	70	83	97	65	75	0.096369	825/835	NonOverlappingTemplate
90	83	89	74	85	83	98	82	72	79	0.697084	825/835	NonOverlappingTemplate
79	85	70	80	85	85	86	97	94	74	0.597046	827/835	NonOverlappingTemplate
82	77	65	82	71	93	86	85	94	100	0.191812	825/835	NonOverlappingTemplate
88	65	83	95	77	91	80	89	82	85	0.559831	830/835	NonOverlappingTemplate
88	96	76	82	98	82	84	79	77	73	0.584587	830/835	NonOverlappingTemplate
91	84	78	76	77	87	75	86	96	85	0.810617	822/835	NonOverlappingTemplate
85	70	76	78	84	87	101	92	82	80	0.516041	829/835	NonOverlappingTemplate
76	89	84	90	71	97	78	80	78	92	0.594551	828/835	NonOverlappingTemplate
79	86	73	87	78	81	88	104	90	69	0.303064	820/835	NonOverlappingTemplate
88	89	80	73	90	80	101	75	78	81	0.557370	826/835	NonOverlappingTemplate
77	73	103	88	81	80	83	80	89	81	0.584587	823/835	NonOverlappingTemplate
96	84	84	87	74	81	88	86	79	76	0.877861	825/835	NonOverlappingTemplate
84	95	85	68	92	74	85	82	75	95	0.435053	827/835	NonOverlappingTemplate
92	75	81	83	83	96	74	91	77	83	0.738712	826/835	NonOverlappingTemplate
82	95	86	89	97	84	86	65	84	67	0.226524	824/835	NonOverlappingTemplate
79	86	92	76	68	85	105	87	79	78	0.265929	829/835	NonOverlappingTemplate
80	84	66	99	86	92	71	66	102	89	0.037924	827/835	NonOverlappingTemplate
82	78	88	92	79	83	78	81	83	91	0.967994	830/835	NonOverlappingTemplate
76	91	89	90	74	88	75	82	82	88	0.854787	829/835	NonOverlappingTemplate
95	85	103	65	76	94	88	73	79	77	0.099908	827/835	NonOverlappingTemplate
94	83	75	88	78	86	67	87	82	95	0.537793	826/835	NonOverlappingTemplate
84	84	85	67	73	84	81	92	81	104	0.292588	828/835	NonOverlappingTemplate
90	89	91	71	67	83	73	98	88	85	0.284058	826/835	NonOverlappingTemplate
102	76	87	88	74	86	89	72	72	89	0.326656	824/835	NonOverlappingTemplate
83	68	83	85	83	90	89	90	81	83	0.881535	829/835	NonOverlappingTemplate
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86	83	96	80	83	85	87	88	71	76	0.823682	825/835	NonOverlappingTemplate
84	75	96	82	78	74	73	93	102	78	0.264324	830/835	NonOverlappingTemplate
86	80	73	83	80	82	102	74	81	94	0.496989	825/835	NonOverlappingTemplate
91	86	73	90	77	82	84	76	101	75	0.494628	826/835	NonOverlappingTemplate
85	74	69	87	86	95	75	80	94	90	0.499355	827/835	NonOverlappingTemplate

77	82	78	84	91	92	83	87	85	76	0.949407	831/835	NonOverlappingTemplate
87	73	76	98	76	89	76	93	87	80	0.552456	825/835	NonOverlappingTemplate
88	92	82	72	84	79	83	80	75	100	0.604541	829/835	NonOverlappingTemplate
88	88	79	84	79	83	86	80	82	86	0.998183	821/835	NonOverlappingTemplate
75	81	74	99	87	76	79	85	88	91	0.639628	825/835	NonOverlappingTemplate
76	66	101	89	80	75	77	73	99	99	0.047228	824/835	NonOverlappingTemplate
93	63	82	93	75	85	86	75	105	78	0.088969	820/835	NonOverlappingTemplate
61	101	82	85	84	84	84	73	87	94	0.177300	828/835	NonOverlappingTemplate
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73	75	69	90	75	107	82	77	99	88	0.057694	831/835	NonOverlappingTemplate
93	77	79	88	80	76	87	82	88	85	0.947032	822/835	NonOverlappingTemplate
86	84	93	78	76	80	85	72	96	85	0.748329	826/835	OverlappingTemplate
101	88	87	69	83	79	90	93	78	67	0.205941	821/835	Universal
91	92	93	78	87	89	70	76	81	78	0.652169	824/835	ApproximateEntropy
61	57	47	54	62	57	42	47	57	54	0.603762	531/538	RandomExcursions
58	42	59	52	52	48	66	70	49	42	0.086376	536/538	RandomExcursions
45	58	54	50	55	62	56	51	61	46	0.754925	535/538	RandomExcursions
58	53	51	52	50	45	72	53	45	59	0.301084	531/538	RandomExcursions
45	40	50	63	51	54	53	57	63	62	0.329527	528/538	RandomExcursions
51	60	51	57	50	42	51	61	55	60	0.728537	531/538	RandomExcursions
49	61	51	52	60	45	60	56	53	51	0.842453	532/538	RandomExcursions
44	62	52	69	65	49	39	61	57	40	0.022600	531/538	RandomExcursions
62	41	67	44	43	60	53	54	57	57	0.166922	531/538	RandomExcursionsVariant
56	64	53	45	44	45	52	65	49	65	0.204933	530/538	RandomExcursionsVariant
62	56	61	53	41	54	42	47	67	55	0.192862	529/538	RandomExcursionsVariant
62	56	66	44	42	48	48	62	48	62	0.155072	530/538	RandomExcursionsVariant
65	49	56	46	52	58	49	57	53	53	0.815853	525/538	RandomExcursionsVariant
53	59	64	48	58	49	48	55	58	46	0.724721	532/538	RandomExcursionsVariant
56	52	61	58	46	53	50	65	46	51	0.670474	535/538	RandomExcursionsVariant
55	58	52	61	46	63	43	65	46	49	0.317937	534/538	RandomExcursionsVariant
54	57	50	52	45	66	46	62	46	60	0.418341	534/538	RandomExcursionsVariant
49	52	56	56	54	49	60	55	48	59	0.958827	534/538	RandomExcursionsVariant
45	41	58	55	73	50	46	54	53	63	0.090419	532/538	RandomExcursionsVariant
46	48	55	48	55	68	54	57	50	57	0.631226	531/538	RandomExcursionsVariant
40	59	51	61	61	44	75	50	51	46	0.033047	536/538	RandomExcursionsVariant
37	60	52	58	64	68	57	41	51	50	0.066098	538/538	RandomExcursionsVariant
43	55	49	47	68	51	60	53	52	60	0.425173	537/538	RandomExcursionsVariant
36	57	48	47	53	65	51	57	60	64	0.153438	536/538	RandomExcursionsVariant
44	47	46	51	69	50	53	72	51	55	0.086376	537/538	RandomExcursionsVariant
40	54	46	46	72	45	62	56	59	58	0.068474	537/538	RandomExcursionsVariant
90	90	82	82	76	91	75	87	83	79	0.928687	822/835	Serial
80	96	91	79	73	90	86	81	75	84	0.755486	824/835	Serial
70	80	82	91	95	72	86	101	91	67	0.122754	826/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 525 for a sample size = 538 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(HASH_Real)_freq

FILE = nist_01_hash_real_100mb.bin	ALPHA = 0.0100
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BITSREAD = 1000000 0s = 499366 1s = 500634
 BITSREAD = 1000000 0s = 500174 1s = 499826
 BITSREAD = 1000000 0s = 500303 1s = 499697
 BITSREAD = 1000000 0s = 499668 1s = 500332
 BITSREAD = 1000000 0s = 499853 1s = 500147
 BITSREAD = 1000000 0s = 499825 1s = 500175
 BITSREAD = 1000000 0s = 499969 1s = 500031
 BITSREAD = 1000000 0s = 499537 1s = 500463
 BITSREAD = 1000000 0s = 500021 1s = 499979
 BITSREAD = 1000000 0s = 500008 1s = 499992
 BITSREAD = 1000000 0s = 500556 1s = 499444
 BITSREAD = 1000000 0s = 500390 1s = 499610
 BITSREAD = 1000000 0s = 499327 1s = 500673
 BITSREAD = 1000000 0s = 499982 1s = 500018
 BITSREAD = 1000000 0s = 499878 1s = 500122
 BITSREAD = 1000000 0s = 499495 1s = 500505

(SIGN_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_05_sign_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
117	83	87	83	78	56	96	72	91	72	0.000666	828/835	Frequency
78	81	79	89	83	97	78	87	78	85	0.899120	827/835	BlockFrequency
116	81	80	95	75	80	77	82	79	70	0.029144	824/835	CumulativeSums
118	84	80	66	80	95	90	76	72	74	0.004596	827/835	CumulativeSums
76	92	92	89	73	80	56	94	96	87	0.052626	822/835	Runs
81	73	85	88	76	83	95	77	85	92	0.799488	831/835	LongestRun
75	74	79	90	89	100	78	86	91	73	0.452988	828/835	Rank
101	75	69	90	82	92	89	85	80	72	0.299543	823/835	FFT
71	84	68	82	83	103	92	90	72	90	0.167016	830/835	NonOverlappingTemplate
70	83	82	76	85	70	85	100	98	86	0.270786	831/835	NonOverlappingTemplate
76	83	91	87	90	84	95	78	85	66	0.562295	827/835	NonOverlappingTemplate
87	83	83	80	87	79	70	96	78	92	0.736295	827/835	NonOverlappingTemplate
86	77	75	89	97	91	93	85	82	60	0.185652	826/835	NonOverlappingTemplate
97	77	77	83	91	92	82	71	93	72	0.402473	824/835	NonOverlappingTemplate
89	100	81	89	76	59	75	82	94	90	0.097771	825/835	NonOverlappingTemplate
73	98	103	73	82	77	77	83	87	82	0.274061	825/835	NonOverlappingTemplate
76	83	99	57	87	82	97	83	71	100	0.020531	829/835	NonOverlappingTemplate
71	76	91	85	91	96	76	86	76	87	0.592057	823/835	NonOverlappingTemplate
92	83	78	85	86	85	80	86	79	81	0.992385	826/835	NonOverlappingTemplate
78	92	89	78	75	104	63	95	73	88	0.063682	827/835	NonOverlappingTemplate
89	74	79	93	85	96	81	76	80	82	0.774314	821/835	NonOverlappingTemplate
81	85	70	92	92	84	75	85	90	81	0.783571	827/835	NonOverlappingTemplate
88	85	81	93	87	72	95	67	75	92	0.365313	824/835	NonOverlappingTemplate
87	92	80	77	75	79	84	69	94	98	0.417501	824/835	NonOverlappingTemplate
77	87	82	93	90	64	82	88	100	72	0.211279	825/835	NonOverlappingTemplate

88	88	93	85	86	85	88	71	61	90	0.313801	832/835	NonOverlappingTemplate
70	92	88	93	84	85	76	80	92	75	0.634611	825/835	NonOverlappingTemplate
78	82	91	75	88	93	76	78	80	94	0.757861	826/835	NonOverlappingTemplate
79	103	81	90	79	76	79	80	92	76	0.504100	830/835	NonOverlappingTemplate
73	86	87	88	93	71	88	88	90	71	0.567232	831/835	NonOverlappingTemplate
77	71	82	67	82	86	88	115	81	86	0.033134	824/835	NonOverlappingTemplate
97	98	78	70	93	82	81	83	83	70	0.296051	822/835	NonOverlappingTemplate
85	89	91	81	73	91	81	80	78	86	0.921415	827/835	NonOverlappingTemplate
80	85	99	70	100	85	80	75	80	81	0.363313	825/835	NonOverlappingTemplate
85	81	80	83	72	88	88	85	90	83	0.967994	824/835	NonOverlappingTemplate
82	80	95	84	88	82	81	88	90	65	0.634611	823/835	NonOverlappingTemplate
94	78	93	73	89	91	94	77	66	80	0.285749	828/835	NonOverlappingTemplate
101	77	90	77	79	89	76	85	80	81	0.659687	825/835	NonOverlappingTemplate
84	79	84	77	87	89	91	84	75	85	0.968881	828/835	NonOverlappingTemplate
74	81	92	98	84	74	83	79	84	86	0.738712	828/835	NonOverlappingTemplate
89	85	72	82	77	83	79	95	82	91	0.825826	823/835	NonOverlappingTemplate
81	99	82	83	93	77	66	82	86	86	0.485231	832/835	NonOverlappingTemplate
97	78	81	83	86	77	100	86	73	74	0.435053	822/835	NonOverlappingTemplate
75	85	94	86	68	83	85	92	77	90	0.622070	826/835	NonOverlappingTemplate
91	70	86	72	85	86	82	88	98	77	0.535361	829/835	NonOverlappingTemplate
84	75	90	68	94	76	79	82	91	96	0.424037	831/835	NonOverlappingTemplate
82	82	69	81	86	95	82	87	97	74	0.552456	828/835	NonOverlappingTemplate
84	86	88	99	84	75	81	73	83	82	0.783571	824/835	NonOverlappingTemplate
84	85	90	84	80	73	86	77	89	87	0.958286	827/835	NonOverlappingTemplate
78	73	86	98	94	97	81	76	84	68	0.242610	832/835	NonOverlappingTemplate
99	77	94	85	75	100	86	81	63	75	0.090276	822/835	NonOverlappingTemplate
87	80	95	64	87	81	87	104	80	70	0.112804	826/835	NonOverlappingTemplate
80	101	88	94	76	77	86	80	77	76	0.530508	827/835	NonOverlappingTemplate
91	94	95	73	106	59	83	92	71	71	0.006361	821/835	NonOverlappingTemplate
76	85	78	82	97	89	82	85	80	81	0.913775	832/835	NonOverlappingTemplate
69	91	84	80	80	83	83	80	91	94	0.769644	824/835	NonOverlappingTemplate
85	84	70	85	77	95	81	87	82	89	0.834308	825/835	NonOverlappingTemplate
72	79	75	90	93	96	90	87	72	81	0.480562	828/835	NonOverlappingTemplate
73	82	104	69	77	79	81	91	83	96	0.193063	829/835	NonOverlappingTemplate
91	91	71	84	80	105	77	71	82	83	0.248672	822/835	NonOverlappingTemplate
82	75	96	84	69	89	73	97	104	66	0.035314	819/835	NonOverlappingTemplate
71	89	102	84	80	91	77	80	75	86	0.452988	828/835	NonOverlappingTemplate
83	86	82	101	87	88	84	66	77	81	0.485231	829/835	NonOverlappingTemplate
95	83	72	86	79	76	87	79	85	93	0.767300	825/835	NonOverlappingTemplate
83	83	74	86	94	73	80	80	90	92	0.785868	823/835	NonOverlappingTemplate
76	98	81	74	87	97	84	76	78	84	0.554912	824/835	NonOverlappingTemplate
80	95	65	83	95	87	89	89	77	75	0.371354	827/835	NonOverlappingTemplate
69	83	84	86	76	78	86	98	79	96	0.492271	833/835	NonOverlappingTemplate
79	88	80	76	64	103	100	80	80	85	0.118520	824/835	NonOverlappingTemplate
86	74	85	83	90	70	82	82	95	88	0.757861	825/835	NonOverlappingTemplate
87	85	86	64	96	87	77	80	86	87	0.557370	826/835	NonOverlappingTemplate
82	70	76	94	75	87	86	92	79	94	0.554912	823/835	NonOverlappingTemplate
79	83	78	87	92	66	90	78	80	102	0.311993	827/835	NonOverlappingTemplate
78	72	94	88	90	76	68	84	88	97	0.343701	829/835	NonOverlappingTemplate
82	78	86	71	100	73	102	78	89	76	0.185652	827/835	NonOverlappingTemplate
86	76	91	74	81	78	78	79	103	89	0.480562	829/835	NonOverlappingTemplate
86	80	90	87	101	86	89	64	76	76	0.277364	827/835	NonOverlappingTemplate

80	89	75	98	78	76	72	91	80	96	0.411022	826/835	NonOverlappingTemplate
81	84	104	94	80	71	84	74	79	84	0.361321	827/835	NonOverlappingTemplate
75	70	86	84	89	99	79	102	73	78	0.186871	828/835	NonOverlappingTemplate
87	76	85	78	93	77	79	86	96	78	0.797238	827/835	NonOverlappingTemplate
74	87	86	89	89	75	69	90	84	92	0.652169	827/835	NonOverlappingTemplate
71	84	68	82	83	103	93	89	72	90	0.163700	830/835	NonOverlappingTemplate
74	79	77	72	84	80	107	90	93	79	0.207265	827/835	NonOverlappingTemplate
80	87	76	81	70	92	85	92	73	99	0.413175	829/835	NonOverlappingTemplate
72	97	83	78	94	93	77	94	73	74	0.285749	828/835	NonOverlappingTemplate
92	79	73	76	90	73	85	102	88	77	0.359335	823/835	NonOverlappingTemplate
70	76	87	104	64	78	78	87	91	100	0.041033	826/835	NonOverlappingTemplate
100	90	103	71	65	78	66	81	90	91	0.019702	820/835	NonOverlappingTemplate
76	92	93	85	92	85	68	73	89	82	0.513645	829/835	NonOverlappingTemplate
91	94	68	70	84	83	94	93	92	66	0.118520	821/835	NonOverlappingTemplate
91	83	98	87	95	75	79	68	87	72	0.294316	828/835	NonOverlappingTemplate
82	82	75	91	98	80	88	71	91	77	0.572178	828/835	NonOverlappingTemplate
80	94	83	81	104	81	84	78	69	81	0.375415	830/835	NonOverlappingTemplate
93	76	69	72	96	90	72	76	94	97	0.118520	830/835	NonOverlappingTemplate
99	70	74	84	85	99	76	83	85	80	0.351461	830/835	NonOverlappingTemplate
89	84	90	79	93	77	69	95	83	76	0.579617	826/835	NonOverlappingTemplate
72	82	94	90	79	96	76	70	86	90	0.430628	830/835	NonOverlappingTemplate
87	87	72	83	78	80	69	97	85	97	0.402473	824/835	NonOverlappingTemplate
81	95	78	93	89	82	81	76	90	70	0.637119	824/835	NonOverlappingTemplate
92	98	78	76	80	78	91	88	82	72	0.582101	822/835	NonOverlappingTemplate
97	86	80	76	78	85	87	78	80	88	0.881535	827/835	NonOverlappingTemplate
66	98	102	74	79	80	68	84	90	94	0.055531	830/835	NonOverlappingTemplate
81	74	80	100	94	89	79	71	76	91	0.367320	832/835	NonOverlappingTemplate
75	84	92	89	87	79	79	87	83	80	0.961360	830/835	NonOverlappingTemplate
82	95	89	79	94	83	80	78	80	75	0.823682	825/835	NonOverlappingTemplate
94	79	85	76	80	79	77	96	81	88	0.797238	826/835	NonOverlappingTemplate
90	80	86	73	96	79	78	87	84	82	0.854787	824/835	NonOverlappingTemplate
90	89	79	92	74	79	85	81	79	87	0.921415	822/835	NonOverlappingTemplate
105	72	71	95	74	76	91	80	82	89	0.135308	826/835	NonOverlappingTemplate
77	68	81	93	89	88	99	98	63	79	0.068150	828/835	NonOverlappingTemplate
79	81	86	83	104	79	85	64	90	84	0.285749	828/835	NonOverlappingTemplate
76	81	76	88	81	81	87	77	96	92	0.810617	831/835	NonOverlappingTemplate
89	82	78	81	88	81	71	90	92	83	0.879704	824/835	NonOverlappingTemplate
87	95	88	74	77	95	85	88	78	68	0.462093	824/835	NonOverlappingTemplate
89	91	89	73	78	76	81	67	97	94	0.297793	825/835	NonOverlappingTemplate
82	84	81	94	100	82	74	76	91	71	0.428425	825/835	NonOverlappingTemplate
84	91	89	82	94	78	82	67	76	92	0.569704	822/835	NonOverlappingTemplate
93	96	77	72	79	97	67	93	78	83	0.198134	824/835	NonOverlappingTemplate
83	92	87	83	82	93	97	77	64	77	0.353419	827/835	NonOverlappingTemplate
91	88	74	89	96	77	90	77	70	83	0.532933	826/835	NonOverlappingTemplate
73	93	72	90	88	70	85	87	99	78	0.317438	830/835	NonOverlappingTemplate
69	83	82	85	72	94	90	81	99	80	0.421852	823/835	NonOverlappingTemplate
87	88	83	103	91	72	84	77	71	79	0.357356	824/835	NonOverlappingTemplate
78	85	73	88	91	56	96	79	107	82	0.014599	829/835	NonOverlappingTemplate
81	102	66	92	93	73	77	93	80	78	0.148937	829/835	NonOverlappingTemplate
79	90	80	79	84	81	92	87	85	78	0.976185	824/835	NonOverlappingTemplate
82	83	79	94	79	98	77	79	88	76	0.731449	826/835	NonOverlappingTemplate
90	92	99	73	71	81	81	87	89	72	0.369333	826/835	NonOverlappingTemplate

95	89	81	83	92	72	74	76	86	87	0.687154	824/835	NonOverlappingTemplate
66	92	70	102	90	82	80	82	83	88	0.220884	830/835	NonOverlappingTemplate
70	88	96	83	87	84	72	87	74	94	0.468979	830/835	NonOverlappingTemplate
70	82	83	85	98	97	78	80	78	84	0.545110	829/835	NonOverlappingTemplate
90	57	87	84	88	85	90	80	81	93	0.259553	823/835	NonOverlappingTemplate
75	77	88	85	80	81	88	98	83	80	0.848757	827/835	NonOverlappingTemplate
74	84	77	82	88	88	78	85	86	93	0.930096	826/835	NonOverlappingTemplate
85	89	84	92	78	97	90	68	74	78	0.464383	826/835	NonOverlappingTemplate
119	77	76	74	81	77	79	84	77	91	0.021218	818/835	NonOverlappingTemplate
102	65	79	81	90	75	88	85	94	76	0.199419	829/835	NonOverlappingTemplate
104	80	77	89	75	71	98	72	83	86	0.159362	827/835	NonOverlappingTemplate
100	90	72	92	68	92	87	65	80	89	0.095675	821/835	NonOverlappingTemplate
86	83	83	72	78	92	81	92	78	90	0.854787	828/835	NonOverlappingTemplate
98	93	85	100	65	88	82	76	87	61	0.032091	829/835	NonOverlappingTemplate
72	92	79	84	96	85	80	72	79	96	0.482894	825/835	NonOverlappingTemplate
72	81	82	84	100	87	73	72	96	88	0.334160	824/835	NonOverlappingTemplate
80	94	81	100	74	82	72	84	75	93	0.389844	827/835	NonOverlappingTemplate
80	82	82	95	80	82	81	76	96	81	0.858751	822/835	NonOverlappingTemplate
91	85	95	89	73	85	81	85	81	70	0.697084	823/835	NonOverlappingTemplate
75	85	86	79	90	76	75	94	93	82	0.764949	825/835	NonOverlappingTemplate
81	80	84	76	86	85	96	82	79	86	0.952853	826/835	NonOverlappingTemplate
91	73	86	74	71	105	83	77	87	88	0.239622	824/835	NonOverlappingTemplate
90	85	66	98	84	83	78	87	85	79	0.577135	823/835	NonOverlappingTemplate
87	80	88	75	85	76	91	91	68	94	0.562295	824/835	NonOverlappingTemplate
104	79	83	77	90	90	91	70	78	73	0.247146	827/835	NonOverlappingTemplate
89	81	79	95	73	85	86	85	75	87	0.852789	825/835	NonOverlappingTemplate
74	87	86	89	88	76	69	90	84	92	0.684666	827/835	NonOverlappingTemplate
95	97	96	85	88	88	67	71	72	76	0.135308	822/835	OverlappingTemplate
83	70	93	93	76	86	78	84	86	86	0.771982	824/835	Universal
91	85	84	71	73	86	71	90	98	86	0.435053	828/835	ApproximateEntropy
44	44	47	62	42	43	50	53	55	63	0.288249	502/503	RandomExcursions
46	54	44	49	52	54	46	57	40	61	0.585209	496/503	RandomExcursions
55	43	46	46	48	52	50	57	47	59	0.829047	498/503	RandomExcursions
38	58	53	73	43	41	51	53	41	52	0.021849	496/503	RandomExcursions
52	54	46	61	46	57	42	49	55	41	0.548314	499/503	RandomExcursions
35	56	51	56	47	41	49	60	59	49	0.248014	499/503	RandomExcursions
61	47	53	46	50	63	52	50	36	45	0.277082	495/503	RandomExcursions
53	43	59	51	37	48	61	54	55	42	0.291091	497/503	RandomExcursions
47	53	50	50	51	44	52	64	41	51	0.664168	496/503	RandomExcursionsVariant
54	55	49	47	57	53	46	46	52	44	0.934599	499/503	RandomExcursionsVariant
51	46	58	56	51	49	52	47	54	39	0.800005	499/503	RandomExcursionsVariant
44	50	60	48	57	45	46	51	55	47	0.807412	498/503	RandomExcursionsVariant
38	54	48	59	44	59	52	56	48	45	0.473064	496/503	RandomExcursionsVariant
41	46	48	45	51	63	44	62	57	46	0.288249	495/503	RandomExcursionsVariant
49	39	52	39	47	52	68	47	57	53	0.161703	495/503	RandomExcursionsVariant
47	47	38	56	74	47	40	47	61	46	0.014652	499/503	RandomExcursionsVariant
43	49	48	41	50	59	58	60	52	43	0.469232	499/503	RandomExcursionsVariant
44	44	50	55	52	61	45	47	60	45	0.572847	500/503	RandomExcursionsVariant
43	49	49	54	47	43	57	55	50	56	0.859637	502/503	RandomExcursionsVariant
48	48	50	42	47	62	48	58	51	49	0.749884	502/503	RandomExcursionsVariant
45	52	57	46	53	46	48	52	55	49	0.961869	499/503	RandomExcursionsVariant
43	50	52	48	54	55	54	46	55	46	0.945296	499/503	RandomExcursionsVariant

47	44	55	41	50	61	44	50	54	57	0.589341	499/503	RandomExcursionsVariant
46	42	44	65	51	44	50	52	54	55	0.488534	498/503	RandomExcursionsVariant
43	46	43	52	54	53	58	57	47	50	0.807412	501/503	RandomExcursionsVariant
41	48	51	43	42	66	55	49	52	56	0.317565	501/503	RandomExcursionsVariant
83	74	90	77	83	88	100	76	82	82	0.699560	824/835	Serial
85	78	77	99	81	90	79	74	88	84	0.741124	822/835	Serial
73	88	82	84	92	82	93	79	75	87	0.844682	828/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 491 for a sample size = 503 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(SIGN_Real)_freq

FILE = nist_05_sign_real_100mb.bin

ALPHA = 0.0100

BITSREAD = 1000000 0s = 500709 1s = 499291
BITSREAD = 1000000 0s = 500213 1s = 499787
BITSREAD = 1000000 0s = 501149 1s = 498851
BITSREAD = 1000000 0s = 500015 1s = 499985
BITSREAD = 1000000 0s = 500120 1s = 499880
BITSREAD = 1000000 0s = 500270 1s = 499730
BITSREAD = 1000000 0s = 499880 1s = 500120
BITSREAD = 1000000 0s = 499546 1s = 500454
BITSREAD = 1000000 0s = 500243 1s = 499757
BITSREAD = 1000000 0s = 500740 1s = 499260
BITSREAD = 1000000 0s = 498945 1s = 501055
BITSREAD = 1000000 0s = 499714 1s = 500286
BITSREAD = 1000000 0s = 500082 1s = 499918
BITSREAD = 1000000 0s = 499742 1s = 500258
BITSREAD = 1000000 0s = 498339 1s = 501661
BITSREAD = 1000000 0s = 501062 1s = 498938
BITSREAD = 1000000 0s = 499475 1s = 500525
BITSREAD = 1000000 0s = 500425 1s = 499575
BITSREAD = 1000000 0s = 500376 1s = 499624
BITSREAD = 1000000 0s = 499434 1s = 500566
BITSREAD = 1000000 0s = 500326 1s = 499674
BITSREAD = 1000000 0s = 499985 1s = 500015

BITSREAD = 1000000 0s = 500244 1s = 499756
BITSREAD = 1000000 0s = 500861 1s = 499139
BITSREAD = 1000000 0s = 500291 1s = 499709
BITSREAD = 1000000 0s = 499931 1s = 500069
BITSREAD = 1000000 0s = 499598 1s = 500402
BITSREAD = 1000000 0s = 500535 1s = 499465
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(PRNG_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_03_prng_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
82	89	92	88	75	73	80	86	94	76	0.743530	827/835	Frequency
84	81	85	81	84	84	85	80	86	85	0.999971	827/835	BlockFrequency
81	81	97	92	70	73	86	81	93	81	0.525670	830/835	CumulativeSums
69	105	80	90	77	74	91	73	88	88	0.168134	829/835	CumulativeSums
81	85	90	74	91	65	81	95	73	100	0.171525	831/835	Runs
94	88	73	81	87	92	89	70	82	79	0.652169	827/835	LongestRun
85	89	67	91	74	83	93	73	94	86	0.411022	830/835	Rank
108	78	90	88	62	88	93	76	72	80	0.038833	821/835	FFT

83	73	86	82	89	66	103	82	91	80	0.279027	832/835	NonOverlappingTemplate
82	89	99	98	72	92	81	73	69	80	0.191812	820/835	NonOverlappingTemplate
71	83	75	95	92	80	97	92	71	79	0.304835	826/835	NonOverlappingTemplate
100	84	86	78	83	80	87	87	69	81	0.657182	823/835	NonOverlappingTemplate
89	81	81	78	85	90	82	81	90	78	0.982916	830/835	NonOverlappingTemplate
83	92	79	94	83	85	80	72	86	81	0.883353	826/835	NonOverlappingTemplate
78	75	69	82	88	78	84	100	96	85	0.381559	832/835	NonOverlappingTemplate
92	67	89	87	78	75	87	75	97	88	0.402473	826/835	NonOverlappingTemplate
85	91	93	78	80	75	59	102	84	88	0.096369	830/835	NonOverlappingTemplate
92	102	95	89	75	85	76	71	70	80	0.172667	830/835	NonOverlappingTemplate
91	86	87	77	74	99	76	68	83	94	0.324798	829/835	NonOverlappingTemplate
83	65	82	83	86	92	101	94	66	83	0.128007	826/835	NonOverlappingTemplate
88	97	77	98	84	93	84	75	62	77	0.139090	829/835	NonOverlappingTemplate
73	73	87	97	72	82	86	81	95	89	0.459808	832/835	NonOverlappingTemplate
85	76	86	88	80	67	86	90	85	92	0.743530	828/835	NonOverlappingTemplate
84	77	86	75	81	93	82	78	80	99	0.731449	827/835	NonOverlappingTemplate
88	95	66	73	87	96	79	78	94	79	0.269160	825/835	NonOverlappingTemplate
79	99	76	94	81	72	87	88	81	78	0.567232	830/835	NonOverlappingTemplate
89	85	90	76	77	87	95	82	70	84	0.731449	829/835	NonOverlappingTemplate
70	89	100	74	95	85	76	84	90	72	0.251745	828/835	NonOverlappingTemplate
98	69	74	86	88	94	78	84	69	95	0.195585	827/835	NonOverlappingTemplate
93	89	65	93	81	90	89	77	81	77	0.462093	827/835	NonOverlappingTemplate
76	68	79	98	102	74	89	86	83	80	0.203312	826/835	NonOverlappingTemplate
96	77	80	84	92	82	94	76	73	81	0.649662	826/835	NonOverlappingTemplate
82	86	89	85	83	82	73	101	72	82	0.617057	824/835	NonOverlappingTemplate
80	92	87	75	79	82	82	69	99	90	0.504100	831/835	NonOverlappingTemplate
71	71	91	64	85	85	95	79	84	110	0.021927	826/835	NonOverlappingTemplate
73	95	70	76	90	89	90	80	75	97	0.317438	828/835	NonOverlappingTemplate
89	72	80	90	68	76	100	91	80	89	0.297793	828/835	NonOverlappingTemplate
85	84	73	88	68	96	84	95	82	80	0.516041	826/835	NonOverlappingTemplate
76	88	83	76	75	78	84	90	91	94	0.799488	824/835	NonOverlappingTemplate
88	83	82	71	85	71	82	98	82	93	0.557370	826/835	NonOverlappingTemplate
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67	76	75	101	91	101	85	83	64	92	0.030831	828/835	NonOverlappingTemplate
97	76	80	85	80	76	102	78	76	85	0.428425	828/835	NonOverlappingTemplate
74	89	81	85	85	86	68	93	93	81	0.654676	824/835	NonOverlappingTemplate
87	74	89	82	87	88	91	84	85	68	0.774314	827/835	NonOverlappingTemplate
86	88	85	68	83	84	90	83	83	85	0.922899	825/835	NonOverlappingTemplate
93	87	94	73	86	90	72	82	85	73	0.587075	829/835	NonOverlappingTemplate
88	78	75	81	88	89	88	79	90	79	0.944596	827/835	NonOverlappingTemplate
77	93	84	80	90	87	74	82	83	85	0.936916	824/835	NonOverlappingTemplate
84	88	82	88	73	90	82	65	91	92	0.525670	830/835	NonOverlappingTemplate
79	86	90	76	79	84	94	68	103	76	0.257977	827/835	NonOverlappingTemplate
72	87	73	100	83	71	96	77	95	81	0.195585	830/835	NonOverlappingTemplate
91	81	82	92	77	91	73	77	91	80	0.785868	822/835	NonOverlappingTemplate
81	73	89	88	84	82	81	90	85	82	0.974665	826/835	NonOverlappingTemplate
84	82	79	85	79	85	98	76	75	92	0.783571	827/835	NonOverlappingTemplate
93	84	83	75	87	80	92	84	85	72	0.852789	828/835	NonOverlappingTemplate
87	85	76	80	91	67	87	92	89	81	0.694605	825/835	NonOverlappingTemplate
85	69	76	88	84	86	94	65	91	97	0.218106	827/835	NonOverlappingTemplate
85	90	78	78	91	85	75	80	84	89	0.947032	828/835	NonOverlappingTemplate
79	85	81	71	83	95	83	71	100	87	0.421852	823/835	NonOverlappingTemplate

93	85	90	83	91	77	68	70	99	79	0.270786	828/835	NonOverlappingTemplate
83	82	90	85	77	92	87	77	69	93	0.714353	825/835	NonOverlappingTemplate
98	62	87	76	93	82	74	90	87	86	0.219492	826/835	NonOverlappingTemplate
86	78	91	89	66	88	89	90	67	91	0.328521	829/835	NonOverlappingTemplate
80	96	66	82	85	92	75	75	94	90	0.330394	825/835	NonOverlappingTemplate
73	90	66	92	95	94	76	78	85	86	0.311993	825/835	NonOverlappingTemplate
75	87	81	90	82	73	78	88	89	92	0.848757	827/835	NonOverlappingTemplate
82	86	95	85	86	78	81	69	83	90	0.806191	825/835	NonOverlappingTemplate
87	87	85	85	82	89	73	90	65	92	0.574656	825/835	NonOverlappingTemplate
93	86	84	77	80	79	67	90	89	90	0.662191	820/835	NonOverlappingTemplate
84	63	106	65	88	96	85	80	75	93	0.020701	830/835	NonOverlappingTemplate
91	94	92	71	88	78	96	75	75	75	0.359335	832/835	NonOverlappingTemplate
74	76	99	80	84	78	107	80	70	87	0.110428	831/835	NonOverlappingTemplate
91	88	90	84	80	88	83	70	77	84	0.870363	823/835	NonOverlappingTemplate
82	79	79	76	76	87	91	98	82	85	0.806191	829/835	NonOverlappingTemplate
91	83	91	84	83	72	94	77	83	77	0.803965	826/835	NonOverlappingTemplate
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81	82	83	86	103	70	84	66	90	90	0.230827	822/835	NonOverlappingTemplate
69	89	75	85	91	85	82	81	90	88	0.799488	830/835	NonOverlappingTemplate
87	94	82	96	76	76	78	76	79	91	0.664694	824/835	NonOverlappingTemplate
100	89	88	81	85	82	96	54	73	87	0.036453	826/835	NonOverlappingTemplate
84	72	86	83	89	64	104	83	89	81	0.204623	832/835	NonOverlappingTemplate
81	88	83	83	87	92	80	82	80	79	0.992385	824/835	NonOverlappingTemplate
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75	85	90	91	84	88	65	80	91	86	0.597046	825/835	NonOverlappingTemplate
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95	88	87	67	82	77	94	107	67	71	0.025399	832/835	NonOverlappingTemplate
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85	82	74	71	92	81	89	84	77	100	0.518442	825/835	NonOverlappingTemplate
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85	74	81	78	77	90	84	85	100	81	0.741124	825/835	NonOverlappingTemplate
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75	88	86	81	76	70	92	93	90	84	0.674693	828/835	NonOverlappingTemplate
82	97	92	97	65	81	90	74	80	77	0.226524	826/835	NonOverlappingTemplate
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74	73	87	71	91	87	81	105	87	79	0.253292	830/835	NonOverlappingTemplate
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85	76	90	90	70	93	85	86	81	79	0.792713	825/835	NonOverlappingTemplate
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71	71	94	83	82	94	67	105	85	83	0.081474	829/835	NonOverlappingTemplate
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72	104	78	83	83	87	67	92	99	70	0.058136	826/835	NonOverlappingTemplate
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114	72	70	90	85	72	98	83	75	76	0.011622	819/835	NonOverlappingTemplate
68	90	86	63	102	82	77	79	104	84	0.029380	831/835	NonOverlappingTemplate
72	80	103	79	82	88	76	67	83	105	0.059029	829/835	NonOverlappingTemplate
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79	87	89	88	68	80	94	80	79	91	0.692124	822/835	OverlappingTemplate
96	107	73	72	98	85	69	78	79	78	0.040712	820/835	Universal
86	88	90	84	86	73	79	92	84	73	0.858751	826/835	ApproximateEntropy
56	45	46	57	43	50	52	48	57	44	0.779971	491/498	RandomExcursions
47	39	55	40	39	59	59	53	53	54	0.225061	491/498	RandomExcursions
48	52	49	42	54	50	45	48	60	50	0.869955	490/498	RandomExcursions
48	43	40	53	53	67	41	54	42	57	0.129772	494/498	RandomExcursions
66	42	28	60	48	53	56	45	48	52	0.016460	494/498	RandomExcursions

60	55	42	57	40	38	50	49	57	50	0.277110	487/498	RandomExcursions
64	43	45	43	61	51	40	47	44	60	0.118036	493/498	RandomExcursions
42	47	46	42	51	41	53	66	53	57	0.242350	490/498	RandomExcursions
39	52	55	57	34	51	51	50	59	50	0.268779	494/498	RandomExcursionsVariant
40	36	58	60	52	43	47	54	53	55	0.225061	492/498	RandomExcursionsVariant
35	46	47	49	45	57	47	66	52	54	0.182977	493/498	RandomExcursionsVariant
35	49	52	42	45	48	59	54	56	58	0.294334	493/498	RandomExcursionsVariant
40	45	48	50	33	56	53	61	57	55	0.139217	492/498	RandomExcursionsVariant
42	58	41	36	34	59	59	58	53	58	0.019760	495/498	RandomExcursionsVariant
37	56	38	47	44	63	50	50	60	53	0.128253	493/498	RandomExcursionsVariant
39	51	45	47	58	58	46	47	58	49	0.559002	493/498	RandomExcursionsVariant
52	52	48	43	48	62	54	53	44	42	0.643494	495/498	RandomExcursionsVariant
48	42	49	44	38	58	54	63	46	56	0.252676	493/498	RandomExcursionsVariant
40	45	46	53	43	49	50	63	56	53	0.477737	493/498	RandomExcursionsVariant
37	42	63	48	37	44	51	66	48	62	0.013300	494/498	RandomExcursionsVariant
43	53	48	41	49	67	44	49	49	55	0.331026	494/498	RandomExcursionsVariant
48	50	55	42	54	62	47	56	37	47	0.363864	492/498	RandomExcursionsVariant
45	54	50	56	47	51	49	57	56	33	0.388039	493/498	RandomExcursionsVariant
40	54	54	51	57	58	53	42	47	42	0.521855	493/498	RandomExcursionsVariant
35	52	58	59	53	51	47	59	40	44	0.182977	494/498	RandomExcursionsVariant
36	40	75	54	44	60	51	49	55	34	0.001032	495/498	RandomExcursionsVariant
88	89	76	84	93	72	75	90	88	80	0.762593	827/835	Serial
72	77	85	88	98	82	92	66	82	93	0.301300	829/835	Serial
80	75	72	81	88	88	101	80	108	62	0.018904	830/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 486 for a sample size = 498 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(PRNG_Real)_freq

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(MAC_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_04_mac_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
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83	90	81	89	76	86	93	72	82	83	0.879704	825/835	Frequency
81	88	88	79	97	83	67	88	75	89	0.554912	822/835	BlockFrequency
83	78	83	86	73	80	83	102	77	90	0.627085	827/835	CumulativeSums
83	84	104	79	88	80	81	77	83	76	0.637119	829/835	CumulativeSums
78	70	82	95	88	82	87	86	86	81	0.846725	827/835	Runs
75	88	96	85	81	83	85	77	79	86	0.912204	825/835	LongestRun
87	96	96	87	89	66	74	88	71	81	0.247146	826/835	Rank
95	77	86	84	80	79	76	68	107	83	0.170388	826/835	FFT
89	98	74	73	71	87	76	88	92	87	0.408875	826/835	NonOverlappingTemplate
74	92	84	88	83	82	98	68	84	82	0.562295	830/835	NonOverlappingTemplate
82	109	96	66	77	70	86	77	85	87	0.049860	830/835	NonOverlappingTemplate
86	87	52	90	77	105	88	92	80	78	0.015481	824/835	NonOverlappingTemplate
78	87	81	85	91	82	79	88	82	82	0.993068	820/835	NonOverlappingTemplate
80	79	79	90	73	88	80	88	91	87	0.913775	827/835	NonOverlappingTemplate
81	96	83	108	71	76	73	81	83	83	0.154076	827/835	NonOverlappingTemplate
94	84	103	74	83	82	79	78	85	73	0.435053	823/835	NonOverlappingTemplate
86	89	90	81	83	71	80	70	97	88	0.562295	826/835	NonOverlappingTemplate
109	78	83	86	85	79	77	77	90	71	0.213989	821/835	NonOverlappingTemplate
86	82	92	87	77	87	82	79	80	83	0.987309	822/835	NonOverlappingTemplate
88	81	87	91	70	97	79	71	87	84	0.550004	830/835	NonOverlappingTemplate
83	86	97	79	87	87	81	67	90	78	0.629593	824/835	NonOverlappingTemplate
77	90	85	78	93	63	79	93	87	90	0.385688	827/835	NonOverlappingTemplate
93	73	87	72	75	91	77	82	86	99	0.415335	824/835	NonOverlappingTemplate
82	86	81	73	80	96	76	101	87	73	0.400352	824/835	NonOverlappingTemplate
101	80	73	102	84	72	70	93	72	88	0.066131	825/835	NonOverlappingTemplate
86	99	75	77	91	87	76	92	79	73	0.501725	821/835	NonOverlappingTemplate
83	80	83	91	70	86	89	77	95	81	0.771982	823/835	NonOverlappingTemplate
89	85	91	90	83	79	81	80	78	79	0.975432	823/835	NonOverlappingTemplate
96	64	78	86	80	87	90	84	75	95	0.334160	831/835	NonOverlappingTemplate
91	76	88	95	86	82	81	91	80	65	0.499355	829/835	NonOverlappingTemplate
81	82	79	95	81	87	79	87	78	86	0.963332	830/835	NonOverlappingTemplate
78	69	92	81	75	104	86	72	85	93	0.182035	825/835	NonOverlappingTemplate
92	97	73	81	94	90	61	62	98	87	0.014116	823/835	NonOverlappingTemplate
78	89	83	96	74	86	84	77	81	87	0.872256	829/835	NonOverlappingTemplate
85	98	72	70	90	88	85	81	85	81	0.602041	824/835	NonOverlappingTemplate
79	98	87	82	80	76	90	80	78	85	0.846725	824/835	NonOverlappingTemplate
83	103	88	75	67	78	88	78	86	89	0.317438	827/835	NonOverlappingTemplate
81	82	107	83	80	74	68	81	81	98	0.137188	823/835	NonOverlappingTemplate
97	73	91	81	67	86	90	85	92	73	0.319267	820/835	NonOverlappingTemplate
80	92	83	91	85	88	80	79	76	81	0.958286	822/835	NonOverlappingTemplate
72	83	75	95	76	96	81	82	93	82	0.547555	825/835	NonOverlappingTemplate
75	85	91	96	66	79	85	81	94	83	0.450726	829/835	NonOverlappingTemplate

69	79	85	71	94	86	76	91	90	94	0.408875	832/835	NonOverlappingTemplate
71	78	93	79	87	85	87	88	81	86	0.888728	831/835	NonOverlappingTemplate
85	85	94	75	90	86	76	74	85	85	0.860716	829/835	NonOverlappingTemplate
78	77	91	75	79	95	82	85	91	82	0.830087	826/835	NonOverlappingTemplate
90	75	94	104	68	63	94	77	95	75	0.017544	830/835	NonOverlappingTemplate
76	97	78	87	80	75	80	86	96	80	0.669696	826/835	NonOverlappingTemplate
87	92	81	85	88	90	67	73	82	90	0.632102	822/835	NonOverlappingTemplate
81	76	80	97	85	99	68	87	86	76	0.363313	822/835	NonOverlappingTemplate
95	92	85	90	62	77	77	89	86	82	0.343701	827/835	NonOverlappingTemplate
86	80	87	84	92	79	87	82	84	74	0.972276	824/835	NonOverlappingTemplate
87	79	79	83	85	71	89	100	84	78	0.679683	825/835	NonOverlappingTemplate
76	77	99	105	82	80	75	82	70	89	0.148937	825/835	NonOverlappingTemplate
80	71	90	83	95	80	78	87	100	71	0.351461	825/835	NonOverlappingTemplate
87	78	73	91	84	80	88	78	87	89	0.922899	829/835	NonOverlappingTemplate
96	84	88	75	77	80	77	84	86	88	0.874137	823/835	NonOverlappingTemplate
79	85	85	70	77	89	84	82	91	93	0.817190	828/835	NonOverlappingTemplate
86	75	91	80	82	87	84	90	73	87	0.913775	825/835	NonOverlappingTemplate
70	91	78	80	85	87	86	89	95	74	0.667196	827/835	NonOverlappingTemplate
85	110	89	80	77	81	80	71	85	77	0.203312	830/835	NonOverlappingTemplate
94	77	86	78	75	80	90	89	79	87	0.868457	824/835	NonOverlappingTemplate
77	87	84	106	86	68	89	88	81	69	0.163700	821/835	NonOverlappingTemplate
93	83	80	90	79	78	75	94	72	91	0.652169	819/835	NonOverlappingTemplate
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83	88	89	84	75	84	86	76	87	83	0.982916	826/835	NonOverlappingTemplate
76	76	79	77	92	92	91	81	87	84	0.852789	824/835	NonOverlappingTemplate
80	85	82	101	82	85	85	81	69	85	0.674693	831/835	NonOverlappingTemplate
85	89	69	80	82	76	85	91	93	85	0.776638	827/835	NonOverlappingTemplate
81	90	82	93	81	84	58	97	84	85	0.220884	830/835	NonOverlappingTemplate
66	77	88	94	90	89	80	78	93	80	0.492271	832/835	NonOverlappingTemplate
77	86	73	92	80	97	84	79	84	83	0.797238	824/835	NonOverlappingTemplate
87	87	75	82	81	84	80	80	97	82	0.922899	826/835	NonOverlappingTemplate
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80	90	78	90	88	76	81	76	86	90	0.922899	826/835	NonOverlappingTemplate
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66	92	94	87	99	72	87	90	84	64	0.071284	825/835	NonOverlappingTemplate
85	81	79	79	90	79	89	89	86	78	0.979728	827/835	NonOverlappingTemplate
78	82	76	81	93	87	85	78	89	86	0.953970	825/835	NonOverlappingTemplate
55	91	90	84	80	83	93	73	102	84	0.038833	827/835	NonOverlappingTemplate
84	83	76	88	102	70	77	91	85	79	0.462093	824/835	NonOverlappingTemplate
71	93	81	94	90	82	78	85	76	85	0.736295	831/835	NonOverlappingTemplate
89	98	74	73	71	89	74	88	92	87	0.355384	826/835	NonOverlappingTemplate
74	98	86	76	87	67	72	91	100	84	0.145923	830/835	NonOverlappingTemplate
83	71	82	87	92	88	81	75	87	89	0.862669	828/835	NonOverlappingTemplate
65	83	92	81	96	90	84	79	86	79	0.528087	829/835	NonOverlappingTemplate
85	85	80	74	91	93	80	78	95	74	0.711896	826/835	NonOverlappingTemplate
83	85	75	93	82	77	84	109	76	71	0.164799	828/835	NonOverlappingTemplate
79	81	76	70	93	85	81	89	89	92	0.738712	831/835	NonOverlappingTemplate
69	86	84	84	80	82	103	76	90	81	0.468979	826/835	NonOverlappingTemplate
86	89	98	78	81	90	71	86	85	71	0.552456	830/835	NonOverlappingTemplate
75	77	95	83	79	81	89	75	84	97	0.662191	825/835	NonOverlappingTemplate
89	83	85	83	71	61	99	81	93	90	0.163700	825/835	NonOverlappingTemplate
75	90	91	84	77	67	87	92	91	81	0.569704	828/835	NonOverlappingTemplate

91	75	82	89	83	84	92	76	81	82	0.934234	818/835	NonOverlappingTemplate
89	70	83	81	64	90	93	93	76	96	0.186871	826/835	NonOverlappingTemplate
71	82	74	98	101	68	85	85	88	83	0.189328	829/835	NonOverlappingTemplate
77	85	84	88	84	86	90	90	79	72	0.927262	825/835	NonOverlappingTemplate
90	89	93	93	74	76	99	67	78	76	0.209934	823/835	NonOverlappingTemplate
89	77	92	92	82	85	71	86	92	69	0.528087	823/835	NonOverlappingTemplate
66	83	88	82	97	85	93	66	84	91	0.232276	832/835	NonOverlappingTemplate
77	70	85	88	71	98	74	81	109	82	0.058136	827/835	NonOverlappingTemplate
86	92	74	105	69	75	92	83	73	86	0.148937	829/835	NonOverlappingTemplate
79	79	88	73	84	91	76	92	100	73	0.443974	831/835	NonOverlappingTemplate
94	75	102	85	94	74	79	84	76	72	0.254847	831/835	NonOverlappingTemplate
77	82	91	89	71	93	79	89	87	77	0.755486	824/835	NonOverlappingTemplate
91	85	86	104	83	77	82	80	72	75	0.435053	824/835	NonOverlappingTemplate
89	91	79	72	81	86	80	83	80	94	0.860716	824/835	NonOverlappingTemplate
81	81	82	79	87	78	80	92	91	84	0.976185	827/835	NonOverlappingTemplate
86	69	78	94	88	84	86	85	84	81	0.854787	829/835	NonOverlappingTemplate
88	98	81	82	80	83	82	69	88	84	0.753106	827/835	NonOverlappingTemplate
74	84	77	83	77	91	96	78	95	80	0.657182	828/835	NonOverlappingTemplate
95	84	77	95	75	83	75	77	84	90	0.689640	825/835	NonOverlappingTemplate
80	97	93	78	69	91	77	80	87	83	0.550004	827/835	NonOverlappingTemplate
75	84	82	83	83	96	87	73	83	89	0.862669	827/835	NonOverlappingTemplate
77	67	72	95	96	78	90	89	87	84	0.328521	832/835	NonOverlappingTemplate
96	87	80	93	84	73	91	71	92	68	0.279027	829/835	NonOverlappingTemplate
81	96	85	78	75	92	84	73	76	95	0.562295	825/835	NonOverlappingTemplate
91	78	86	88	70	82	83	93	87	77	0.801731	830/835	NonOverlappingTemplate
74	84	99	84	80	75	95	79	84	81	0.642137	830/835	NonOverlappingTemplate
76	69	79	86	82	92	91	102	76	82	0.353419	826/835	NonOverlappingTemplate
75	85	85	86	76	83	80	93	95	77	0.830087	826/835	NonOverlappingTemplate
92	75	83	78	90	91	67	87	84	88	0.637119	824/835	NonOverlappingTemplate
79	99	77	77	85	84	86	88	73	87	0.738712	822/835	NonOverlappingTemplate
81	85	73	90	76	93	80	92	79	86	0.827962	824/835	NonOverlappingTemplate
82	97	86	72	73	87	92	89	79	78	0.612047	828/835	NonOverlappingTemplate
84	80	87	83	88	84	88	79	74	88	0.983512	821/835	NonOverlappingTemplate
87	69	76	83	89	88	95	72	89	87	0.564762	829/835	NonOverlappingTemplate
85	72	96	82	100	83	67	80	91	79	0.262727	829/835	NonOverlappingTemplate
96	65	109	90	78	74	77	88	79	79	0.047596	823/835	NonOverlappingTemplate
86	96	74	76	87	74	77	98	80	87	0.501725	823/835	NonOverlappingTemplate
76	81	90	92	65	100	85	87	84	75	0.303064	828/835	NonOverlappingTemplate
88	79	86	80	76	93	102	74	79	78	0.501725	822/835	NonOverlappingTemplate
70	83	90	88	81	95	83	93	62	90	0.223690	830/835	NonOverlappingTemplate
84	87	93	67	82	100	90	78	73	81	0.339863	826/835	NonOverlappingTemplate
83	89	85	87	104	72	80	88	73	74	0.347567	828/835	NonOverlappingTemplate
97	91	77	92	81	90	84	71	79	73	0.501725	825/835	NonOverlappingTemplate
104	84	67	79	75	90	71	92	77	96	0.087040	830/835	NonOverlappingTemplate
76	68	82	68	98	100	81	84	91	87	0.152003	823/835	NonOverlappingTemplate
98	92	92	61	83	76	76	90	84	83	0.198134	825/835	NonOverlappingTemplate
88	93	67	86	86	81	79	82	80	93	0.702033	826/835	NonOverlappingTemplate
87	83	88	65	82	91	71	91	94	83	0.424037	827/835	NonOverlappingTemplate
72	93	83	86	86	86	81	84	84	80	0.957230	824/835	NonOverlappingTemplate
90	89	97	77	84	77	94	73	79	75	0.545110	827/835	NonOverlappingTemplate
69	86	84	71	72	74	97	93	91	98	0.133450	833/835	NonOverlappingTemplate
102	82	81	80	72	84	92	75	69	98	0.171525	827/835	NonOverlappingTemplate

98	71	90	73	68	90	78	97	88	82	0.185652	820/835	NonOverlappingTemplate
85	73	73	85	84	104	80	90	78	83	0.452988	822/835	NonOverlappingTemplate
92	81	79	94	70	88	87	80	75	89	0.687154	822/835	NonOverlappingTemplate
86	86	86	85	70	77	89	83	85	88	0.934234	828/835	NonOverlappingTemplate
93	82	76	76	93	80	96	79	80	80	0.724146	823/835	NonOverlappingTemplate
76	89	84	95	79	78	85	74	88	87	0.852789	827/835	NonOverlappingTemplate
85	80	75	87	92	90	78	87	73	88	0.860716	825/835	NonOverlappingTemplate
75	87	77	84	71	90	79	88	83	101	0.520848	826/835	NonOverlappingTemplate
92	97	88	69	88	87	76	78	75	85	0.513645	826/835	NonOverlappingTemplate
71	93	82	95	89	81	78	85	76	85	0.724146	831/835	NonOverlappingTemplate
85	93	74	90	66	89	76	84	102	76	0.198134	828/835	OverlappingTemplate
98	96	88	67	88	76	85	91	77	69	0.179655	826/835	Universal
86	90	81	63	77	87	81	76	91	103	0.190567	827/835	ApproximateEntropy
52	44	61	67	51	49	45	58	56	58	0.459787	538/541	RandomExcursions
61	51	37	49	72	43	60	69	54	45	0.010746	531/541	RandomExcursions
61	58	62	52	61	42	62	54	47	42	0.289931	535/541	RandomExcursions
54	47	50	67	57	56	59	57	46	48	0.631335	538/541	RandomExcursions
61	60	61	49	55	52	49	49	51	54	0.902675	538/541	RandomExcursions
56	55	63	59	48	48	56	56	54	46	0.857820	536/541	RandomExcursions
59	48	50	61	49	54	52	60	63	45	0.685196	536/541	RandomExcursions
41	57	55	51	63	56	52	59	60	47	0.619772	532/541	RandomExcursions
56	60	52	49	59	48	43	54	56	64	0.681368	533/541	RandomExcursionsVariant
58	56	58	53	48	41	67	43	69	48	0.099954	533/541	RandomExcursionsVariant
56	60	42	54	54	49	61	58	59	48	0.719370	535/541	RandomExcursionsVariant
52	43	57	55	57	68	40	64	49	56	0.196138	534/541	RandomExcursionsVariant
55	38	54	60	73	58	51	50	48	54	0.139773	537/541	RandomExcursionsVariant
50	53	58	54	56	47	68	55	56	44	0.619772	535/541	RandomExcursionsVariant
44	72	39	63	52	62	43	57	52	57	0.042449	537/541	RandomExcursionsVariant
48	52	57	53	71	47	43	60	65	45	0.128379	536/541	RandomExcursionsVariant
55	55	62	49	53	39	49	59	54	66	0.395681	536/541	RandomExcursionsVariant
53	63	60	50	63	52	60	46	55	39	0.343041	536/541	RandomExcursionsVariant
54	49	60	57	68	50	56	64	53	30	0.037157	534/541	RandomExcursionsVariant
55	47	70	57	61	43	51	52	61	44	0.214355	537/541	RandomExcursionsVariant
56	52	54	55	59	53	48	65	54	45	0.829439	535/541	RandomExcursionsVariant
49	58	50	60	55	63	51	60	48	47	0.774551	535/541	RandomExcursionsVariant
47	57	50	60	57	55	54	71	48	42	0.282109	537/541	RandomExcursionsVariant
43	62	58	56	58	45	56	68	46	49	0.279536	537/541	RandomExcursionsVariant
46	63	53	60	49	53	62	58	42	55	0.532281	536/541	RandomExcursionsVariant
51	54	50	61	61	46	54	55	59	50	0.894865	536/541	RandomExcursionsVariant
84	83	76	81	88	79	80	88	93	83	0.973087	826/835	Serial
85	80	81	73	73	91	83	94	90	85	0.790439	829/835	Serial
74	87	88	82	89	89	72	95	78	81	0.750720	829/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 528 for a sample size = 541 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(MAC_Real)_freq

FILE = nist_04_mac_real_100mb.bin

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(KEX_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_07_kex_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
81	80	87	75	81	87	79	84	86	95	0.945822	826/835	Frequency
99	73	75	80	77	85	85	82	92	87	0.649662	827/835	BlockFrequency
77	80	94	81	77	89	90	75	79	93	0.771982	829/835	CumulativeSums
76	74	87	93	86	60	92	102	86	79	0.088969	828/835	CumulativeSums
78	71	79	86	93	77	86	99	80	86	0.597046	827/835	Runs
80	77	85	78	99	90	80	71	95	80	0.508864	828/835	LongestRun
73	80	90	80	70	82	99	102	88	71	0.140049	830/835	Rank
100	94	92	88	78	91	84	68	63	77	0.083908	823/835	FFT
81	88	81	79	75	86	93	72	85	95	0.748329	831/835	NonOverlappingTemplate
81	71	75	85	97	86	80	82	88	90	0.731449	826/835	NonOverlappingTemplate
77	81	90	72	71	75	92	83	95	99	0.287448	830/835	NonOverlappingTemplate
81	78	72	87	91	85	89	95	67	90	0.468979	825/835	NonOverlappingTemplate
91	80	96	81	87	81	86	68	83	82	0.736295	825/835	NonOverlappingTemplate
80	68	80	91	82	88	83	86	92	85	0.821527	829/835	NonOverlappingTemplate
80	91	79	91	93	78	84	89	76	74	0.801731	831/835	NonOverlappingTemplate
81	85	84	86	76	78	100	75	85	85	0.792713	829/835	NonOverlappingTemplate
80	89	82	91	76	84	91	99	71	72	0.439501	827/835	NonOverlappingTemplate
77	87	87	86	87	82	80	88	78	83	0.993709	826/835	NonOverlappingTemplate
84	88	98	72	93	95	79	88	69	69	0.179655	824/835	NonOverlappingTemplate
91	89	89	80	81	71	91	77	88	78	0.803965	826/835	NonOverlappingTemplate
94	91	91	73	80	80	77	72	93	84	0.582101	825/835	NonOverlappingTemplate
79	74	100	87	77	76	83	89	86	84	0.697084	821/835	NonOverlappingTemplate
80	82	72	76	77	87	89	100	83	89	0.622070	826/835	NonOverlappingTemplate
83	89	86	71	89	89	85	83	87	73	0.868457	828/835	NonOverlappingTemplate
79	82	78	91	91	73	96	70	89	86	0.547555	833/835	NonOverlappingTemplate

82	83	84	97	73	86	95	77	79	79	0.714353	826/835	NonOverlappingTemplate
78	79	75	102	79	83	86	81	84	88	0.711896	826/835	NonOverlappingTemplate
100	81	81	77	76	90	82	78	78	92	0.659687	826/835	NonOverlappingTemplate
84	85	76	81	75	91	86	94	90	73	0.778956	825/835	NonOverlappingTemplate
91	93	76	83	77	94	83	84	63	91	0.345630	824/835	NonOverlappingTemplate
106	76	69	85	82	86	90	77	87	77	0.265929	824/835	NonOverlappingTemplate
91	74	85	92	91	79	82	77	89	75	0.799488	824/835	NonOverlappingTemplate
65	87	76	100	76	80	101	90	80	80	0.138136	828/835	NonOverlappingTemplate
77	80	89	78	92	80	83	84	83	89	0.971450	829/835	NonOverlappingTemplate
76	82	86	87	77	81	82	98	76	90	0.808408	830/835	NonOverlappingTemplate
83	69	88	85	96	67	81	90	86	90	0.421852	832/835	NonOverlappingTemplate
94	71	67	88	88	86	99	75	79	88	0.253292	819/835	NonOverlappingTemplate
84	83	88	87	95	78	82	91	65	82	0.612047	828/835	NonOverlappingTemplate
81	74	95	73	74	97	77	83	86	95	0.385688	832/835	NonOverlappingTemplate
80	83	81	84	78	91	77	87	95	79	0.924369	820/835	NonOverlappingTemplate
72	72	82	80	83	89	82	98	79	98	0.428425	828/835	NonOverlappingTemplate
101	82	83	88	68	94	70	69	90	90	0.123617	821/835	NonOverlappingTemplate
78	82	76	89	76	73	101	84	91	85	0.547555	824/835	NonOverlappingTemplate
70	83	86	101	75	84	71	89	86	90	0.375415	827/835	NonOverlappingTemplate
102	101	79	77	74	83	82	82	80	75	0.292588	822/835	NonOverlappingTemplate
79	86	81	73	86	100	92	74	86	78	0.584587	830/835	NonOverlappingTemplate
72	76	94	82	91	84	88	85	86	77	0.817190	830/835	NonOverlappingTemplate
93	96	80	70	70	68	89	96	82	91	0.145923	825/835	NonOverlappingTemplate
85	76	77	85	82	75	91	85	91	88	0.924369	823/835	NonOverlappingTemplate
84	84	77	98	85	83	91	78	75	80	0.819363	825/835	NonOverlappingTemplate
76	78	92	85	72	88	87	78	89	90	0.817190	834/835	NonOverlappingTemplate
88	78	77	85	85	74	95	76	81	96	0.687154	823/835	NonOverlappingTemplate
86	86	106	71	83	86	73	89	70	85	0.204623	830/835	NonOverlappingTemplate
83	89	76	89	96	94	79	75	63	91	0.242610	826/835	NonOverlappingTemplate
91	72	80	90	93	86	81	90	72	80	0.694605	831/835	NonOverlappingTemplate
81	87	75	83	81	81	83	102	79	83	0.774314	826/835	NonOverlappingTemplate
83	97	78	65	94	82	83	79	98	76	0.241113	833/835	NonOverlappingTemplate
78	84	77	91	74	102	74	82	84	89	0.506480	826/835	NonOverlappingTemplate
100	98	70	87	72	81	98	76	75	78	0.112007	826/835	NonOverlappingTemplate
93	80	86	68	75	79	89	90	101	74	0.275709	834/835	NonOverlappingTemplate
88	73	86	89	94	75	93	81	92	64	0.285749	829/835	NonOverlappingTemplate
85	90	82	82	82	93	95	77	78	71	0.731449	828/835	NonOverlappingTemplate
93	104	93	66	70	81	73	86	76	93	0.059029	827/835	NonOverlappingTemplate
82	78	76	103	90	64	67	84	107	84	0.013998	829/835	NonOverlappingTemplate
93	92	77	90	70	74	83	67	79	110	0.032091	829/835	NonOverlappingTemplate
98	85	79	98	86	87	75	74	86	67	0.282374	818/835	NonOverlappingTemplate
78	87	77	78	87	76	85	101	90	76	0.622070	827/835	NonOverlappingTemplate
81	81	101	80	81	71	101	65	84	90	0.112007	828/835	NonOverlappingTemplate
79	70	97	91	78	84	87	87	83	79	0.714353	828/835	NonOverlappingTemplate
79	71	79	86	90	80	79	91	88	92	0.819363	826/835	NonOverlappingTemplate
87	84	81	66	83	93	94	85	83	79	0.674693	827/835	NonOverlappingTemplate
76	76	79	100	96	76	72	89	83	88	0.377456	828/835	NonOverlappingTemplate
101	98	85	68	81	67	87	74	83	91	0.107328	824/835	NonOverlappingTemplate
81	92	77	60	104	100	70	79	91	81	0.020030	831/835	NonOverlappingTemplate
81	94	87	83	75	63	83	90	85	94	0.402473	823/835	NonOverlappingTemplate
93	76	89	88	92	74	79	76	80	88	0.771982	826/835	NonOverlappingTemplate
83	74	75	84	82	102	84	78	85	88	0.659687	824/835	NonOverlappingTemplate

82	90	87	69	79	68	100	91	83	86	0.317438	828/835	NonOverlappingTemplate
73	81	88	92	80	64	99	87	85	86	0.317438	827/835	NonOverlappingTemplate
79	85	68	93	98	61	91	96	86	78	0.068664	826/835	NonOverlappingTemplate
106	77	90	71	85	87	88	63	69	99	0.018288	822/835	NonOverlappingTemplate
90	79	98	85	71	83	99	89	73	68	0.176133	825/835	NonOverlappingTemplate
81	88	81	79	75	85	94	72	86	94	0.750720	831/835	NonOverlappingTemplate
86	80	81	75	84	88	68	85	102	86	0.478235	827/835	NonOverlappingTemplate
76	93	93	94	87	75	92	67	91	67	0.147926	828/835	NonOverlappingTemplate
96	87	93	92	78	79	66	95	85	64	0.105053	826/835	NonOverlappingTemplate
89	91	69	87	67	70	113	86	84	79	0.017691	829/835	NonOverlappingTemplate
79	87	93	87	78	84	75	80	88	84	0.951720	825/835	NonOverlappingTemplate
73	93	84	72	77	87	74	90	92	93	0.508864	823/835	NonOverlappingTemplate
87	80	93	86	79	81	81	78	77	93	0.921415	826/835	NonOverlappingTemplate
92	69	76	93	79	90	85	81	80	90	0.667196	822/835	NonOverlappingTemplate
97	80	84	96	83	87	77	77	85	69	0.535361	826/835	NonOverlappingTemplate
77	83	79	70	83	87	96	81	98	81	0.564762	829/835	NonOverlappingTemplate
74	92	67	95	74	88	90	89	77	89	0.355384	825/835	NonOverlappingTemplate
68	103	85	85	88	74	83	80	89	80	0.387763	829/835	NonOverlappingTemplate
91	78	84	74	86	84	76	92	89	81	0.895710	828/835	NonOverlappingTemplate
72	97	88	81	90	81	82	70	87	87	0.612047	830/835	NonOverlappingTemplate
102	87	81	70	95	79	75	89	84	73	0.277364	830/835	NonOverlappingTemplate
85	87	74	85	78	64	96	89	91	86	0.413175	826/835	NonOverlappingTemplate
69	80	90	84	99	75	86	82	86	84	0.619563	825/835	NonOverlappingTemplate
83	93	78	83	77	99	90	70	78	84	0.537793	824/835	NonOverlappingTemplate
81	99	79	85	83	81	78	84	86	79	0.909017	826/835	NonOverlappingTemplate
73	96	80	87	96	71	91	87	82	72	0.371354	825/835	NonOverlappingTemplate
90	77	77	73	83	89	77	88	82	99	0.644646	822/835	NonOverlappingTemplate
86	74	90	89	82	70	97	94	79	74	0.424037	826/835	NonOverlappingTemplate
79	74	105	63	90	81	83	79	78	103	0.037924	829/835	NonOverlappingTemplate
85	72	90	83	69	74	93	105	82	82	0.186871	826/835	NonOverlappingTemplate
71	79	95	83	82	93	76	74	99	83	0.389844	828/835	NonOverlappingTemplate
92	69	81	90	91	94	98	75	71	74	0.191812	824/835	NonOverlappingTemplate
76	67	85	82	96	85	86	70	87	101	0.209934	829/835	NonOverlappingTemplate
82	93	86	72	92	85	70	87	82	86	0.724146	829/835	NonOverlappingTemplate
85	84	89	91	81	64	93	88	73	87	0.478235	820/835	NonOverlappingTemplate
68	81	86	82	74	83	91	92	99	79	0.448469	832/835	NonOverlappingTemplate
76	85	86	92	86	87	78	84	85	76	0.965243	826/835	NonOverlappingTemplate
86	77	73	86	84	68	103	83	82	93	0.303064	824/835	NonOverlappingTemplate
86	91	74	78	90	67	85	91	83	90	0.612047	826/835	NonOverlappingTemplate
75	77	85	74	89	90	83	87	89	86	0.912204	827/835	NonOverlappingTemplate
82	92	76	81	85	86	82	77	87	87	0.977645	828/835	NonOverlappingTemplate
78	96	64	91	85	84	82	95	78	82	0.385688	827/835	NonOverlappingTemplate
88	88	80	76	82	74	85	94	71	97	0.545110	827/835	NonOverlappingTemplate
90	83	80	76	74	87	77	90	94	84	0.838489	827/835	NonOverlappingTemplate
77	88	85	71	94	87	88	77	83	85	0.838489	824/835	NonOverlappingTemplate
96	76	78	75	90	85	72	94	82	87	0.589565	823/835	NonOverlappingTemplate
74	97	78	82	83	82	81	92	88	78	0.808408	829/835	NonOverlappingTemplate
86	88	86	80	74	91	80	84	80	86	0.974665	829/835	NonOverlappingTemplate
60	109	79	74	81	99	89	84	71	89	0.010858	824/835	NonOverlappingTemplate
85	84	91	77	98	78	78	79	86	79	0.827962	826/835	NonOverlappingTemplate
83	86	81	69	90	82	103	68	80	93	0.215355	825/835	NonOverlappingTemplate
84	85	92	70	81	77	94	100	80	72	0.345630	830/835	NonOverlappingTemplate

74	81	68	94	87	81	81	90	81	98	0.452988	828/835	NonOverlappingTemplate
69	97	83	81	79	98	73	78	103	74	0.091600	825/835	NonOverlappingTemplate
98	74	86	84	80	84	86	76	83	84	0.864610	825/835	NonOverlappingTemplate
75	73	94	77	71	99	76	96	76	98	0.102085	829/835	NonOverlappingTemplate
91	85	81	89	89	75	82	76	90	77	0.902475	827/835	NonOverlappingTemplate
76	75	89	79	84	88	90	80	90	84	0.935582	827/835	NonOverlappingTemplate
92	108	71	82	70	79	91	83	70	89	0.072899	826/835	NonOverlappingTemplate
79	81	84	86	87	92	84	94	71	77	0.819363	831/835	NonOverlappingTemplate
81	89	85	74	92	89	78	83	80	84	0.949407	824/835	NonOverlappingTemplate
87	78	80	89	70	83	101	95	82	70	0.292588	825/835	NonOverlappingTemplate
89	91	80	78	85	100	82	67	83	80	0.499355	826/835	NonOverlappingTemplate
85	91	79	77	90	70	74	83	86	100	0.471285	828/835	NonOverlappingTemplate
86	99	70	76	83	91	83	77	100	70	0.184440	826/835	NonOverlappingTemplate
93	79	83	101	77	75	73	85	80	89	0.504100	827/835	NonOverlappingTemplate
61	92	105	96	81	82	80	78	74	86	0.062252	830/835	NonOverlappingTemplate
91	113	76	77	67	82	72	83	96	78	0.021044	821/835	NonOverlappingTemplate
86	97	81	89	86	77	80	80	83	76	0.890494	827/835	NonOverlappingTemplate
80	82	82	85	81	75	86	76	93	95	0.864610	827/835	NonOverlappingTemplate
71	80	76	78	90	90	86	100	89	75	0.464383	829/835	NonOverlappingTemplate
89	92	84	74	58	106	70	85	98	79	0.011427	822/835	NonOverlappingTemplate
83	72	82	91	73	87	82	99	82	84	0.662191	818/835	NonOverlappingTemplate
96	83	76	96	89	81	79	92	78	65	0.310193	823/835	NonOverlappingTemplate
81	88	78	90	76	89	66	94	83	90	0.554912	825/835	NonOverlappingTemplate
78	79	90	79	90	93	68	88	78	92	0.599543	828/835	NonOverlappingTemplate
98	87	97	79	86	88	79	79	53	89	0.041033	827/835	NonOverlappingTemplate
89	80	74	85	81	92	79	88	72	95	0.711896	826/835	NonOverlappingTemplate
90	79	97	85	71	84	98	90	73	68	0.204623	825/835	NonOverlappingTemplate
85	94	76	82	90	78	78	86	80	86	0.934234	825/835	OverlappingTemplate
84	81	70	95	85	80	74	77	88	101	0.383620	827/835	Universal
77	75	86	92	73	91	74	76	108	83	0.146922	833/835	ApproximateEntropy
59	45	48	47	51	55	52	49	44	57	0.859637	499/507	RandomExcursions
46	48	49	66	52	40	56	37	54	59	0.134944	503/507	RandomExcursions
56	46	42	50	41	63	49	60	42	58	0.219006	502/507	RandomExcursions
52	37	46	48	43	53	55	66	62	45	0.121616	503/507	RandomExcursions
40	48	47	40	61	53	58	46	56	58	0.314544	505/507	RandomExcursions
34	48	57	50	60	69	46	49	58	36	0.012920	502/507	RandomExcursions
57	56	47	44	52	46	53	41	54	57	0.729870	503/507	RandomExcursions
65	57	42	53	36	46	60	52	48	48	0.144504	501/507	RandomExcursions
55	47	40	57	51	59	51	47	47	53	0.753844	500/507	RandomExcursionsVariant
51	47	54	52	50	59	55	42	50	47	0.899171	503/507	RandomExcursionsVariant
54	37	72	52	52	40	44	60	42	54	0.018796	505/507	RandomExcursionsVariant
48	52	54	56	50	49	51	37	59	51	0.713641	501/507	RandomExcursionsVariant
47	49	53	53	40	53	54	65	50	43	0.480771	502/507	RandomExcursionsVariant
43	56	62	42	46	60	49	46	52	51	0.473064	502/507	RandomExcursionsVariant
49	49	58	51	57	39	59	49	47	49	0.680755	503/507	RandomExcursionsVariant
45	52	59	46	36	64	66	48	51	40	0.040371	504/507	RandomExcursionsVariant
41	55	42	53	47	60	36	62	51	60	0.103138	503/507	RandomExcursionsVariant
40	39	56	57	58	63	51	49	52	42	0.203351	507/507	RandomExcursionsVariant
40	55	57	55	51	51	55	45	60	38	0.358641	504/507	RandomExcursionsVariant
42	60	52	37	56	52	41	57	54	56	0.263572	505/507	RandomExcursionsVariant
36	64	47	43	52	48	49	57	58	53	0.235589	506/507	RandomExcursionsVariant
43	48	46	48	53	57	55	51	61	45	0.733899	507/507	RandomExcursionsVariant

43	51	60	48	45	55	48	61	41	55	0.465415	505/507	RandomExcursionsVariant
48	47	57	52	44	66	43	48	52	50	0.504219	505/507	RandomExcursionsVariant
47	57	50	48	60	45	49	52	46	53	0.887645	502/507	RandomExcursionsVariant
54	48	51	56	39	60	45	50	46	58	0.568739	501/507	RandomExcursionsVariant
90	68	77	79	98	72	96	99	76	80	0.125357	826/835	Serial
78	74	98	90	83	84	85	77	85	81	0.819363	827/835	Serial
91	79	75	73	91	88	84	84	99	71	0.450726	823/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 495 for a sample size = 507 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(KEX_Real)_freq

FILE = nist_07_kex_real_100mb.bin

ALPHA = 0.0100

BITSREAD = 1000000 0s = 500152 1s = 499848
 BITSREAD = 1000000 0s = 500095 1s = 499905
 BITSREAD = 1000000 0s = 499994 1s = 500006
 BITSREAD = 1000000 0s = 500676 1s = 499324
 BITSREAD = 1000000 0s = 500215 1s = 499785
 BITSREAD = 1000000 0s = 500265 1s = 499735
 BITSREAD = 1000000 0s = 499991 1s = 500009
 BITSREAD = 1000000 0s = 500890 1s = 499110
 BITSREAD = 1000000 0s = 500601 1s = 499399
 BITSREAD = 1000000 0s = 499691 1s = 500309
 BITSREAD = 1000000 0s = 499587 1s = 500413
 BITSREAD = 1000000 0s = 499788 1s = 500212
 BITSREAD = 1000000 0s = 499665 1s = 500335
 BITSREAD = 1000000 0s = 499697 1s = 500303
 BITSREAD = 1000000 0s = 499240 1s = 500760
 BITSREAD = 1000000 0s = 499349 1s = 500651
 BITSREAD = 1000000 0s = 499472 1s = 500528
 BITSREAD = 1000000 0s = 499524 1s = 500476
 BITSREAD = 1000000 0s = 499861 1s = 500139
 BITSREAD = 1000000 0s = 500158 1s = 499842
 BITSREAD = 1000000 0s = 499889 1s = 500111
 BITSREAD = 1000000 0s = 500022 1s = 499978

BITSREAD = 1000000 0s = 500069 1s = 499931
BITSREAD = 1000000 0s = 499592 1s = 500408
BITSREAD = 1000000 0s = 499966 1s = 500034
BITSREAD = 1000000 0s = 500329 1s = 499671
BITSREAD = 1000000 0s = 499865 1s = 500135
BITSREAD = 1000000 0s = 500249 1s = 499751
BITSREAD = 1000000 0s = 500335 1s = 499665
BITSREAD = 1000000 0s = 499564 1s = 500436
BITSREAD = 1000000 0s = 499509 1s = 500491
BITSREAD = 1000000 0s = 499225 1s = 500775
BITSREAD = 1000000 0s = 500525 1s = 499475
BITSREAD = 1000000 0s = 500537 1s = 499463
BITSREAD = 1000000 0s = 500318 1s = 499682
BITSREAD = 1000000 0s = 499845 1s = 500155
BITSREAD = 1000000 0s = 500577 1s = 499423
BITSREAD = 1000000 0s = 499953 1s = 500047
BITSREAD = 1000000 0s = 500936 1s = 499064
BITSREAD = 1000000 0s = 499657 1s = 500343
BITSREAD = 1000000 0s = 499596 1s = 500404
BITSREAD = 1000000 0s = 500357 1s = 499643
BITSREAD = 1000000 0s = 500101 1s = 499899
BITSREAD = 1000000 0s = 499871 1s = 500129
BITSREAD = 1000000 0s = 500713 1s = 499287
BITSREAD = 1000000 0s = 499882 1s = 500118
BITSREAD = 1000000 0s = 499751 1s = 500249
BITSREAD = 1000000 0s = 500169 1s = 499831
BITSREAD = 1000000 0s = 499243 1s = 500757
BITSREAD = 1000000 0s = 499200 1s = 500800
BITSREAD = 1000000 0s = 500590 1s = 499410
BITSREAD = 1000000 0s = 499598 1s = 500402
BITSREAD = 1000000 0s = 500198 1s = 499802
BITSREAD = 1000000 0s = 500067 1s = 499933
BITSREAD = 1000000 0s = 499338 1s = 500662
BITSREAD = 1000000 0s = 500071 1s = 499929
BITSREAD = 1000000 0s = 499772 1s = 500228
BITSREAD = 1000000 0s = 500271 1s = 499729
BITSREAD = 1000000 0s = 500610 1s = 499390
BITSREAD = 1000000 0s = 499211 1s = 500789
BITSREAD = 1000000 0s = 500941 1s = 499059
BITSREAD = 1000000 0s = 500046 1s = 499954
BITSREAD = 1000000 0s = 500268 1s = 499732
BITSREAD = 1000000 0s = 498386 1s = 501614
BITSREAD = 1000000 0s = 500282 1s = 499718
BITSREAD = 1000000 0s = 500872 1s = 499128
BITSREAD = 1000000 0s = 499661 1s = 500339
BITSREAD = 1000000 0s = 499361 1s = 500639
BITSREAD = 1000000 0s = 500030 1s = 499970
BITSREAD = 1000000 0s = 499894 1s = 500106
BITSREAD = 1000000 0s = 499963 1s = 500037
BITSREAD = 1000000 0s = 499768 1s = 500232
BITSREAD = 1000000 0s = 500291 1s = 499709
BITSREAD = 1000000 0s = 499734 1s = 500266

BITSREAD = 1000000 0s = 500048 1s = 499952
BITSREAD = 1000000 0s = 499927 1s = 500073
BITSREAD = 1000000 0s = 499970 1s = 500030
BITSREAD = 1000000 0s = 500133 1s = 499867
BITSREAD = 1000000 0s = 499533 1s = 500467
BITSREAD = 1000000 0s = 499943 1s = 500057
BITSREAD = 1000000 0s = 499893 1s = 500107
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(KDF_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_06_kdf_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
----	----	----	----	----	----	----	----	----	-----	---------	------------	------------------

79	108	82	82	80	71	89	85	83	76	0.299543	829/835	Frequency
85	75	89	84	87	75	84	89	89	78	0.945822	828/835	BlockFrequency
80	79	85	87	96	86	78	83	73	88	0.876005	829/835	CumulativeSums
88	83	92	76	98	72	86	77	87	76	0.599543	829/835	CumulativeSums
80	77	84	77	79	88	91	97	83	79	0.850778	826/835	Runs
85	72	90	81	78	78	93	95	71	92	0.494628	827/835	LongestRun
66	98	64	73	96	94	85	78	91	90	0.049476	833/835	Rank
94	98	79	79	73	74	96	79	83	80	0.430628	818/835	FFT

69	89	67	76	90	87	87	82	88	100	0.259553	828/835	NonOverlappingTemplate
97	72	75	72	74	76	86	98	81	104	0.071284	825/835	NonOverlappingTemplate
72	70	81	84	87	89	88	78	97	89	0.577135	827/835	NonOverlappingTemplate
80	93	74	79	101	92	63	75	88	90	0.128007	829/835	NonOverlappingTemplate
90	85	77	85	94	71	60	88	85	100	0.105053	827/835	NonOverlappingTemplate
79	81	100	94	81	68	91	73	89	79	0.308400	829/835	NonOverlappingTemplate
82	78	95	87	85	90	80	78	79	81	0.939537	829/835	NonOverlappingTemplate
77	94	87	76	74	88	91	94	75	79	0.622070	832/835	NonOverlappingTemplate
84	78	87	87	74	88	84	95	77	81	0.897422	827/835	NonOverlappingTemplate
94	88	81	90	80	78	78	84	82	80	0.953970	830/835	NonOverlappingTemplate
90	78	88	81	82	87	79	94	77	79	0.928687	827/835	NonOverlappingTemplate
68	86	89	86	91	70	93	87	90	75	0.443974	831/835	NonOverlappingTemplate
76	77	82	91	74	89	97	97	83	69	0.326656	826/835	NonOverlappingTemplate
94	67	93	67	91	80	76	106	70	91	0.021393	828/835	NonOverlappingTemplate
83	92	74	87	78	83	89	87	91	71	0.781267	829/835	NonOverlappingTemplate
79	100	100	87	74	84	73	78	83	77	0.328521	829/835	NonOverlappingTemplate
79	67	74	90	104	72	78	85	98	88	0.091600	829/835	NonOverlappingTemplate
68	80	82	89	79	91	106	84	74	82	0.236662	828/835	NonOverlappingTemplate
93	75	99	79	78	102	87	77	73	72	0.154076	824/835	NonOverlappingTemplate
103	86	84	80	80	77	81	91	84	69	0.457529	826/835	NonOverlappingTemplate
90	80	85	70	70	80	98	86	89	87	0.496989	824/835	NonOverlappingTemplate
85	77	86	75	77	86	81	74	95	99	0.559831	826/835	NonOverlappingTemplate
90	79	80	59	87	83	89	83	91	94	0.297793	824/835	NonOverlappingTemplate
96	104	69	82	77	103	76	71	74	83	0.032091	825/835	NonOverlappingTemplate
83	94	68	90	80	81	90	74	87	88	0.639628	828/835	NonOverlappingTemplate
78	77	69	79	99	95	88	79	89	82	0.432838	830/835	NonOverlappingTemplate
74	78	79	100	86	94	72	83	85	84	0.530508	825/835	NonOverlappingTemplate
102	90	72	88	73	86	80	76	88	80	0.426228	826/835	NonOverlappingTemplate
62	91	82	91	89	74	88	83	84	91	0.404600	824/835	NonOverlappingTemplate
104	79	86	74	79	73	85	89	97	69	0.154076	826/835	NonOverlappingTemplate
77	68	79	82	88	86	78	88	99	90	0.530508	829/835	NonOverlappingTemplate
80	90	69	92	75	82	83	94	82	88	0.679683	826/835	NonOverlappingTemplate
78	79	86	82	89	80	86	84	91	80	0.988742	828/835	NonOverlappingTemplate
74	94	83	79	80	85	88	84	76	92	0.862669	826/835	NonOverlappingTemplate
96	75	86	89	75	78	103	83	75	75	0.290868	831/835	NonOverlappingTemplate
85	78	87	79	77	79	97	84	82	87	0.915332	822/835	NonOverlappingTemplate
89	87	94	76	89	85	85	74	83	73	0.799488	820/835	NonOverlappingTemplate
88	73	84	82	87	75	82	91	88	85	0.934234	828/835	NonOverlappingTemplate
86	91	82	90	84	75	79	88	75	85	0.936916	829/835	NonOverlappingTemplate
88	92	88	81	77	80	91	83	78	77	0.931490	821/835	NonOverlappingTemplate
74	77	102	76	81	80	77	93	81	94	0.379504	828/835	NonOverlappingTemplate
92	68	84	83	72	91	78	96	93	78	0.369333	827/835	NonOverlappingTemplate
97	70	86	88	100	70	72	84	88	80	0.202007	828/835	NonOverlappingTemplate
73	83	79	86	65	91	106	70	96	86	0.053032	832/835	NonOverlappingTemplate
94	86	88	77	65	77	82	85	93	88	0.513645	826/835	NonOverlappingTemplate
75	88	80	99	68	91	86	93	72	83	0.310193	830/835	NonOverlappingTemplate
77	84	93	81	83	87	83	93	78	76	0.912204	829/835	NonOverlappingTemplate
87	88	86	75	97	67	83	93	86	73	0.406735	827/835	NonOverlappingTemplate
97	91	97	82	83	72	87	84	74	68	0.285749	825/835	NonOverlappingTemplate
74	81	89	93	85	71	88	85	76	93	0.679683	827/835	NonOverlappingTemplate
70	71	82	83	96	94	79	93	83	84	0.466678	826/835	NonOverlappingTemplate
75	81	73	84	95	77	81	94	91	84	0.689640	822/835	NonOverlappingTemplate

79	74	71	93	79	82	93	99	87	78	0.428425	825/835	NonOverlappingTemplate
76	69	86	91	79	86	95	98	79	76	0.404600	831/835	NonOverlappingTemplate
87	82	83	91	78	89	70	75	79	101	0.473596	818/835	NonOverlappingTemplate
88	78	90	83	75	91	99	75	80	76	0.607042	826/835	NonOverlappingTemplate
104	73	76	71	101	82	84	73	92	79	0.087040	823/835	NonOverlappingTemplate
94	84	64	82	81	76	90	105	76	83	0.141984	827/835	NonOverlappingTemplate
84	86	101	75	86	91	78	83	70	81	0.528087	825/835	NonOverlappingTemplate
98	87	85	77	78	77	80	85	75	93	0.714353	831/835	NonOverlappingTemplate
83	82	78	80	88	80	90	85	89	80	0.991276	822/835	NonOverlappingTemplate
95	81	78	71	96	89	87	71	75	92	0.353419	822/835	NonOverlappingTemplate
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91	93	80	73	76	72	72	89	89	100	0.265929	824/835	NonOverlappingTemplate
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76	100	76	82	81	101	83	81	86	69	0.265929	830/835	NonOverlappingTemplate
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88	71	75	91	86	79	91	83	89	82	0.825826	828/835	NonOverlappingTemplate
93	94	93	70	75	83	75	83	87	82	0.569704	826/835	NonOverlappingTemplate
92	91	87	77	100	59	89	81	75	84	0.120198	826/835	NonOverlappingTemplate
87	83	104	80	78	91	91	80	61	80	0.141014	826/835	NonOverlappingTemplate
84	81	89	95	67	95	80	81	81	82	0.609544	829/835	NonOverlappingTemplate
89	78	85	74	72	97	102	80	66	92	0.105807	826/835	NonOverlappingTemplate
77	79	93	87	89	83	92	82	81	72	0.838489	826/835	NonOverlappingTemplate
79	97	60	85	71	89	94	78	81	101	0.051029	827/835	NonOverlappingTemplate
83	75	86	77	85	86	81	94	75	93	0.838489	825/835	NonOverlappingTemplate
82	81	84	83	83	79	97	91	76	79	0.899120	825/835	NonOverlappingTemplate
88	85	87	79	74	80	84	93	79	86	0.949407	827/835	NonOverlappingTemplate
95	79	69	89	80	78	82	85	90	88	0.731449	824/835	NonOverlappingTemplate
81	89	98	77	94	87	84	77	78	70	0.528087	830/835	NonOverlappingTemplate
85	73	96	71	84	84	72	95	76	99	0.218106	831/835	NonOverlappingTemplate
84	83	83	92	87	81	83	76	80	86	0.990883	827/835	NonOverlappingTemplate
83	88	78	77	80	88	83	84	97	77	0.893985	829/835	NonOverlappingTemplate
69	97	85	108	79	75	76	78	84	84	0.116040	823/835	NonOverlappingTemplate
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97	69	84	86	82	77	83	91	78	88	0.672195	825/835	NonOverlappingTemplate
68	100	80	84	92	83	69	92	81	86	0.290868	831/835	NonOverlappingTemplate
92	76	71	86	75	92	102	83	73	85	0.292588	821/835	NonOverlappingTemplate
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91	73	76	89	84	97	86	78	83	78	0.731449	820/835	NonOverlappingTemplate
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74	87	81	85	96	80	94	75	78	85	0.741124	825/835	NonOverlappingTemplate
91	81	84	74	84	80	83	95	85	78	0.910618	826/835	OverlappingTemplate
70	78	78	84	87	85	90	83	109	71	0.146922	828/835	Universal
79	79	93	80	99	72	80	82	87	84	0.682176	828/835	ApproximateEntropy
48	45	52	44	78	46	67	48	37	51	0.002299	512/516	RandomExcursions
45	41	45	57	60	57	54	50	55	52	0.647326	514/516	RandomExcursions
56	51	60	41	58	49	49	54	52	46	0.755509	507/516	RandomExcursions
53	40	60	50	57	49	61	56	48	42	0.431862	513/516	RandomExcursions
58	48	56	57	55	62	49	43	47	41	0.472349	509/516	RandomExcursions

58	53	42	42	52	46	59	65	51	48	0.350485	514/516	RandomExcursions
40	52	44	34	65	61	61	56	54	49	0.041043	512/516	RandomExcursions
52	52	56	65	48	47	39	56	48	53	0.491325	510/516	RandomExcursions
35	44	46	61	48	58	53	55	62	54	0.186070	514/516	RandomExcursionsVariant
32	46	48	64	51	53	56	53	52	61	0.133931	514/516	RandomExcursionsVariant
37	48	47	54	61	55	55	59	52	48	0.479900	513/516	RandomExcursionsVariant
35	50	44	72	55	47	68	48	52	45	0.009390	514/516	RandomExcursionsVariant
35	43	62	63	47	51	65	38	57	55	0.018156	515/516	RandomExcursionsVariant
38	50	37	67	57	52	59	46	49	61	0.053526	511/516	RandomExcursionsVariant
35	56	54	45	50	66	52	56	56	46	0.196195	513/516	RandomExcursionsVariant
42	56	55	60	45	55	49	64	41	49	0.316704	513/516	RandomExcursionsVariant
53	59	56	50	54	45	60	51	40	48	0.651407	512/516	RandomExcursionsVariant
61	48	49	58	55	54	49	50	46	46	0.855939	507/516	RandomExcursionsVariant
45	53	53	59	48	55	48	53	51	51	0.969489	508/516	RandomExcursionsVariant
44	56	45	51	52	69	48	40	58	53	0.206758	514/516	RandomExcursionsVariant
46	47	59	58	46	46	46	55	55	58	0.732044	511/516	RandomExcursionsVariant
46	52	56	60	43	44	48	49	62	56	0.542069	513/516	RandomExcursionsVariant
49	44	53	59	55	51	45	52	55	53	0.923837	511/516	RandomExcursionsVariant
46	45	50	52	60	62	56	47	52	46	0.688008	509/516	RandomExcursionsVariant
46	44	57	47	58	57	49	47	62	49	0.639161	509/516	RandomExcursionsVariant
44	53	49	55	45	48	57	61	50	54	0.818661	510/516	RandomExcursionsVariant
83	86	82	80	94	77	77	105	72	79	0.347567	824/835	Serial
94	64	80	84	79	107	81	78	87	81	0.135308	827/835	Serial
74	84	81	85	87	73	93	84	86	88	0.904132	829/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 504 for a sample size = 516 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(KDF_Real)_freq

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BITSREAD = 1000000 0s = 501037 1s = 498963
BITSREAD = 1000000 0s = 499701 1s = 500299
BITSREAD = 1000000 0s = 500415 1s = 499585
BITSREAD = 1000000 0s = 500872 1s = 499128
BITSREAD = 1000000 0s = 499812 1s = 500188
BITSREAD = 1000000 0s = 500140 1s = 499860
BITSREAD = 1000000 0s = 500064 1s = 499936
BITSREAD = 1000000 0s = 499389 1s = 500611
BITSREAD = 1000000 0s = 499617 1s = 500383
BITSREAD = 1000000 0s = 500450 1s = 499550
BITSREAD = 1000000 0s = 499437 1s = 500563
BITSREAD = 1000000 0s = 499917 1s = 500083
BITSREAD = 1000000 0s = 500433 1s = 499567
BITSREAD = 1000000 0s = 500135 1s = 499865
BITSREAD = 1000000 0s = 499588 1s = 500412
BITSREAD = 1000000 0s = 499862 1s = 500138
BITSREAD = 1000000 0s = 500858 1s = 499142
BITSREAD = 1000000 0s = 500010 1s = 499990
BITSREAD = 1000000 0s = 499545 1s = 500455
BITSREAD = 1000000 0s = 499446 1s = 500554
BITSREAD = 1000000 0s = 500456 1s = 499544
BITSREAD = 1000000 0s = 500044 1s = 499956
BITSREAD = 1000000 0s = 500412 1s = 499588
BITSREAD = 1000000 0s = 499706 1s = 500294
BITSREAD = 1000000 0s = 500171 1s = 499829
BITSREAD = 1000000 0s = 500554 1s = 499446
BITSREAD = 1000000 0s = 499845 1s = 500155
BITSREAD = 1000000 0s = 500287 1s = 499713
BITSREAD = 1000000 0s = 499872 1s = 500128
BITSREAD = 1000000 0s = 499810 1s = 500190
BITSREAD = 1000000 0s = 500502 1s = 499498
BITSREAD = 1000000 0s = 500074 1s = 499926
BITSREAD = 1000000 0s = 499760 1s = 500240
BITSREAD = 1000000 0s = 499325 1s = 500675
BITSREAD = 1000000 0s = 500390 1s = 499610

BITSREAD = 1000000 0s = 500073 1s = 499927
BITSREAD = 1000000 0s = 501104 1s = 498896
BITSREAD = 1000000 0s = 500825 1s = 499175
BITSREAD = 1000000 0s = 500523 1s = 499477
BITSREAD = 1000000 0s = 499942 1s = 500058
BITSREAD = 1000000 0s = 499924 1s = 500076
BITSREAD = 1000000 0s = 500101 1s = 499899
BITSREAD = 1000000 0s = 500639 1s = 499361
BITSREAD = 1000000 0s = 499769 1s = 500231
BITSREAD = 1000000 0s = 499368 1s = 500632
BITSREAD = 1000000 0s = 498733 1s = 501267
BITSREAD = 1000000 0s = 499299 1s = 500701
BITSREAD = 1000000 0s = 498958 1s = 501042
BITSREAD = 1000000 0s = 499886 1s = 500114
BITSREAD = 1000000 0s = 499514 1s = 500486
BITSREAD = 1000000 0s = 500361 1s = 499639
BITSREAD = 1000000 0s = 499314 1s = 500686
BITSREAD = 1000000 0s = 500608 1s = 499392
BITSREAD = 1000000 0s = 500356 1s = 499644
BITSREAD = 1000000 0s = 499828 1s = 500172
BITSREAD = 1000000 0s = 499665 1s = 500335
BITSREAD = 1000000 0s = 500396 1s = 499604
BITSREAD = 1000000 0s = 500639 1s = 499361
BITSREAD = 1000000 0s = 500406 1s = 499594
BITSREAD = 1000000 0s = 499499 1s = 500501
BITSREAD = 1000000 0s = 500505 1s = 499495
BITSREAD = 1000000 0s = 499167 1s = 500833
BITSREAD = 1000000 0s = 499456 1s = 500544
BITSREAD = 1000000 0s = 499879 1s = 500121
BITSREAD = 1000000 0s = 500201 1s = 499799
BITSREAD = 1000000 0s = 500386 1s = 499614
BITSREAD = 1000000 0s = 499749 1s = 500251
BITSREAD = 1000000 0s = 500818 1s = 499182
BITSREAD = 1000000 0s = 500245 1s = 499755
BITSREAD = 1000000 0s = 500148 1s = 499852
BITSREAD = 1000000 0s = 500459 1s = 499541
BITSREAD = 1000000 0s = 500437 1s = 499563
BITSREAD = 1000000 0s = 500390 1s = 499610
BITSREAD = 1000000 0s = 499711 1s = 500289
BITSREAD = 1000000 0s = 499750 1s = 500250
BITSREAD = 1000000 0s = 499816 1s = 500184
BITSREAD = 1000000 0s = 500228 1s = 499772
BITSREAD = 1000000 0s = 500070 1s = 499930
BITSREAD = 1000000 0s = 499644 1s = 500356
BITSREAD = 1000000 0s = 499613 1s = 500387
BITSREAD = 1000000 0s = 499928 1s = 500072
BITSREAD = 1000000 0s = 500178 1s = 499822
BITSREAD = 1000000 0s = 499538 1s = 500462
BITSREAD = 1000000 0s = 500249 1s = 499751
BITSREAD = 1000000 0s = 500048 1s = 499952

(ENCRYPT_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_02_encrypt_real_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
82	89	92	88	75	73	80	86	94	76	0.743530	827/835	Frequency
84	81	85	81	84	84	85	80	86	85	0.999971	827/835	BlockFrequency
81	81	97	92	70	73	86	81	93	81	0.525670	830/835	CumulativeSums
69	105	80	90	77	74	91	73	88	88	0.168134	829/835	CumulativeSums
81	85	90	74	91	65	81	95	73	100	0.171525	831/835	Runs
94	88	73	81	87	92	89	70	82	79	0.652169	827/835	LongestRun
85	89	67	91	74	83	93	73	94	86	0.411022	830/835	Rank
108	78	90	88	62	88	93	76	72	80	0.038833	821/835	FFT
83	73	86	82	89	66	103	82	91	80	0.279027	832/835	NonOverlappingTemplate
82	89	99	98	72	92	81	73	69	80	0.191812	820/835	NonOverlappingTemplate
71	83	75	95	92	80	97	92	71	79	0.304835	826/835	NonOverlappingTemplate
100	84	86	78	83	80	87	87	69	81	0.657182	823/835	NonOverlappingTemplate
89	81	81	78	85	90	82	81	90	78	0.982916	830/835	NonOverlappingTemplate
83	92	79	94	83	85	80	72	86	81	0.883353	826/835	NonOverlappingTemplate
78	75	69	82	88	78	84	100	96	85	0.381559	832/835	NonOverlappingTemplate
92	67	89	87	78	75	87	75	97	88	0.402473	826/835	NonOverlappingTemplate
85	91	93	78	80	75	59	102	84	88	0.096369	830/835	NonOverlappingTemplate
92	102	95	89	75	85	76	71	70	80	0.172667	830/835	NonOverlappingTemplate
91	86	87	77	74	99	76	68	83	94	0.324798	829/835	NonOverlappingTemplate
83	65	82	83	86	92	101	94	66	83	0.128007	826/835	NonOverlappingTemplate
88	97	77	98	84	93	84	75	62	77	0.139090	829/835	NonOverlappingTemplate
73	73	87	97	72	82	86	81	95	89	0.459808	832/835	NonOverlappingTemplate
85	76	86	88	80	67	86	90	85	92	0.743530	828/835	NonOverlappingTemplate
84	77	86	75	81	93	82	78	80	99	0.731449	827/835	NonOverlappingTemplate
88	95	66	73	87	96	79	78	94	79	0.269160	825/835	NonOverlappingTemplate
79	99	76	94	81	72	87	88	81	78	0.567232	830/835	NonOverlappingTemplate
89	85	90	76	77	87	95	82	70	84	0.731449	829/835	NonOverlappingTemplate
70	89	100	74	95	85	76	84	90	72	0.251745	828/835	NonOverlappingTemplate
98	69	74	86	88	94	78	84	69	95	0.195585	827/835	NonOverlappingTemplate
93	89	65	93	81	90	89	77	81	77	0.462093	827/835	NonOverlappingTemplate
76	68	79	98	102	74	89	86	83	80	0.203312	826/835	NonOverlappingTemplate
96	77	80	84	92	82	94	76	73	81	0.649662	826/835	NonOverlappingTemplate
82	86	89	85	83	82	73	101	72	82	0.617057	824/835	NonOverlappingTemplate
80	92	87	75	79	82	82	69	99	90	0.504100	831/835	NonOverlappingTemplate
71	71	91	64	85	85	95	79	84	110	0.021927	826/835	NonOverlappingTemplate
73	95	70	76	90	89	90	80	75	97	0.317438	828/835	NonOverlappingTemplate
89	72	80	90	68	76	100	91	80	89	0.297793	828/835	NonOverlappingTemplate
85	84	73	88	68	96	84	95	82	80	0.516041	826/835	NonOverlappingTemplate
76	88	83	76	75	78	84	90	91	94	0.799488	824/835	NonOverlappingTemplate
88	83	82	71	85	71	82	98	82	93	0.557370	826/835	NonOverlappingTemplate
89	88	98	83	76	62	85	86	85	83	0.387763	830/835	NonOverlappingTemplate
67	76	75	101	91	101	85	83	64	92	0.030831	828/835	NonOverlappingTemplate

97	76	80	85	80	76	102	78	76	85	0.428425	828/835	NonOverlappingTemplate
74	89	81	85	85	86	68	93	93	81	0.654676	824/835	NonOverlappingTemplate
87	74	89	82	87	88	91	84	85	68	0.774314	827/835	NonOverlappingTemplate
86	88	85	68	83	84	90	83	83	85	0.922899	825/835	NonOverlappingTemplate
93	87	94	73	86	90	72	82	85	73	0.587075	829/835	NonOverlappingTemplate
88	78	75	81	88	89	88	79	90	79	0.944596	827/835	NonOverlappingTemplate
77	93	84	80	90	87	74	82	83	85	0.936916	824/835	NonOverlappingTemplate
84	88	82	88	73	90	82	65	91	92	0.525670	830/835	NonOverlappingTemplate
79	86	90	76	79	84	94	68	103	76	0.257977	827/835	NonOverlappingTemplate
72	87	73	100	83	71	96	77	95	81	0.195585	830/835	NonOverlappingTemplate
91	81	82	92	77	91	73	77	91	80	0.785868	822/835	NonOverlappingTemplate
81	73	89	88	84	82	81	90	85	82	0.974665	826/835	NonOverlappingTemplate
84	82	79	85	79	85	98	76	75	92	0.783571	827/835	NonOverlappingTemplate
93	84	83	75	87	80	92	84	85	72	0.852789	828/835	NonOverlappingTemplate
87	85	76	80	91	67	87	92	89	81	0.694605	825/835	NonOverlappingTemplate
85	69	76	88	84	86	94	65	91	97	0.218106	827/835	NonOverlappingTemplate
85	90	78	78	91	85	75	80	84	89	0.947032	828/835	NonOverlappingTemplate
79	85	81	71	83	95	83	71	100	87	0.421852	823/835	NonOverlappingTemplate
93	85	90	83	91	77	68	70	99	79	0.270786	828/835	NonOverlappingTemplate
83	82	90	85	77	92	87	77	69	93	0.714353	825/835	NonOverlappingTemplate
98	62	87	76	93	82	74	90	87	86	0.219492	826/835	NonOverlappingTemplate
86	78	91	89	66	88	89	90	67	91	0.328521	829/835	NonOverlappingTemplate
80	96	66	82	85	92	75	75	94	90	0.330394	825/835	NonOverlappingTemplate
73	90	66	92	95	94	76	78	85	86	0.311993	825/835	NonOverlappingTemplate
75	87	81	90	82	73	78	88	89	92	0.848757	827/835	NonOverlappingTemplate
82	86	95	85	86	78	81	69	83	90	0.806191	825/835	NonOverlappingTemplate
87	87	85	85	82	89	73	90	65	92	0.574656	825/835	NonOverlappingTemplate
93	86	84	77	80	79	67	90	89	90	0.662191	820/835	NonOverlappingTemplate
84	63	106	65	88	96	85	80	75	93	0.020701	830/835	NonOverlappingTemplate
91	94	92	71	88	78	96	75	75	75	0.359335	832/835	NonOverlappingTemplate
74	76	99	80	84	78	107	80	70	87	0.110428	831/835	NonOverlappingTemplate
91	88	90	84	80	88	83	70	77	84	0.870363	823/835	NonOverlappingTemplate
82	79	79	76	76	87	91	98	82	85	0.806191	829/835	NonOverlappingTemplate
91	83	91	84	83	72	94	77	83	77	0.803965	826/835	NonOverlappingTemplate
80	86	87	80	60	94	82	103	86	77	0.132530	826/835	NonOverlappingTemplate
84	67	96	87	87	77	74	91	87	85	0.540228	826/835	NonOverlappingTemplate
81	82	83	86	103	70	84	66	90	90	0.230827	822/835	NonOverlappingTemplate
69	89	75	85	91	85	82	81	90	88	0.799488	830/835	NonOverlappingTemplate
87	94	82	96	76	76	78	76	79	91	0.664694	824/835	NonOverlappingTemplate
100	89	88	81	85	82	96	54	73	87	0.036453	826/835	NonOverlappingTemplate
84	72	86	83	89	64	104	83	89	81	0.204623	832/835	NonOverlappingTemplate
81	88	83	83	87	92	80	82	80	79	0.992385	824/835	NonOverlappingTemplate
95	84	86	92	73	78	86	85	77	79	0.823682	825/835	NonOverlappingTemplate
83	94	88	75	77	89	79	77	85	88	0.885157	827/835	NonOverlappingTemplate
75	85	90	91	84	88	65	80	91	86	0.597046	825/835	NonOverlappingTemplate
79	84	94	85	79	85	91	86	67	85	0.743530	827/835	NonOverlappingTemplate
80	100	73	75	91	86	90	81	89	70	0.387763	828/835	NonOverlappingTemplate
96	77	98	77	96	81	79	84	70	77	0.321103	829/835	NonOverlappingTemplate
95	88	87	67	82	77	94	107	67	71	0.025399	832/835	NonOverlappingTemplate
76	87	73	68	93	65	103	104	77	89	0.013534	826/835	NonOverlappingTemplate
85	82	74	71	92	81	89	84	77	100	0.518442	825/835	NonOverlappingTemplate
85	89	81	86	83	84	86	80	68	93	0.852789	826/835	NonOverlappingTemplate

85	88	84	80	84	76	87	83	81	87	0.997102	822/835	NonOverlappingTemplate
84	81	77	83	88	94	83	76	85	84	0.967994	829/835	NonOverlappingTemplate
86	91	80	81	67	83	74	108	94	71	0.070753	820/835	NonOverlappingTemplate
76	83	93	82	74	94	83	83	81	86	0.883353	831/835	NonOverlappingTemplate
75	66	92	88	101	80	73	71	83	106	0.026451	826/835	NonOverlappingTemplate
80	80	82	86	85	79	81	87	94	81	0.985219	827/835	NonOverlappingTemplate
86	91	88	92	74	93	79	72	78	82	0.709435	822/835	NonOverlappingTemplate
106	86	83	97	80	67	90	81	71	74	0.080876	819/835	NonOverlappingTemplate
70	83	81	84	91	79	80	75	99	93	0.511252	824/835	NonOverlappingTemplate
65	87	79	103	99	84	84	71	86	77	0.105807	827/835	NonOverlappingTemplate
78	84	82	96	91	80	69	80	91	84	0.689640	826/835	NonOverlappingTemplate
78	83	73	86	87	93	94	85	77	79	0.821527	831/835	NonOverlappingTemplate
78	84	85	80	80	86	96	84	84	78	0.962354	824/835	NonOverlappingTemplate
93	85	94	92	80	71	81	71	77	91	0.482894	821/835	NonOverlappingTemplate
85	74	81	78	77	90	84	85	100	81	0.741124	825/835	NonOverlappingTemplate
82	95	81	92	76	69	93	94	72	81	0.359335	822/835	NonOverlappingTemplate
72	98	87	90	98	69	65	83	94	79	0.076227	831/835	NonOverlappingTemplate
92	89	84	77	68	85	92	93	72	83	0.508864	828/835	NonOverlappingTemplate
86	85	84	99	83	92	62	93	67	84	0.128007	828/835	NonOverlappingTemplate
91	84	90	78	79	77	92	83	86	75	0.900804	826/835	NonOverlappingTemplate
74	87	81	92	93	70	87	94	67	90	0.292588	826/835	NonOverlappingTemplate
78	71	92	81	71	90	86	88	98	80	0.473596	828/835	NonOverlappingTemplate
77	76	82	90	90	75	84	86	85	90	0.927262	829/835	NonOverlappingTemplate
68	79	66	80	89	92	96	91	83	91	0.244115	828/835	NonOverlappingTemplate
83	92	94	68	87	80	83	82	88	78	0.733874	829/835	NonOverlappingTemplate
76	84	83	91	71	95	82	90	76	87	0.716807	826/835	NonOverlappingTemplate
70	76	86	83	94	77	89	83	100	77	0.439501	829/835	NonOverlappingTemplate
91	106	84	88	54	74	90	82	76	90	0.015874	828/835	NonOverlappingTemplate
87	88	86	88	79	86	82	73	82	84	0.982306	819/835	NonOverlappingTemplate
96	86	103	90	71	70	75	82	83	79	0.196856	827/835	NonOverlappingTemplate
80	93	75	89	66	81	96	71	92	92	0.226524	828/835	NonOverlappingTemplate
83	77	93	92	88	61	93	93	80	75	0.211279	825/835	NonOverlappingTemplate
75	88	86	81	76	70	92	93	90	84	0.674693	828/835	NonOverlappingTemplate
82	97	92	97	65	81	90	74	80	77	0.226524	826/835	NonOverlappingTemplate
94	88	95	74	68	95	76	74	88	83	0.290868	826/835	NonOverlappingTemplate
74	73	87	71	91	87	81	105	87	79	0.253292	830/835	NonOverlappingTemplate
90	67	99	67	93	86	95	87	78	73	0.102820	823/835	NonOverlappingTemplate
93	83	88	89	94	80	77	73	92	66	0.383620	828/835	NonOverlappingTemplate
81	70	89	95	87	83	79	84	91	76	0.738712	827/835	NonOverlappingTemplate
88	85	87	99	78	90	89	76	67	76	0.417501	826/835	NonOverlappingTemplate
75	82	96	81	99	83	68	78	89	84	0.400352	831/835	NonOverlappingTemplate
81	68	70	68	96	76	92	91	91	102	0.048716	828/835	NonOverlappingTemplate
73	75	100	98	74	97	84	72	83	79	0.155121	832/835	NonOverlappingTemplate
72	83	80	90	74	89	96	68	83	100	0.225104	830/835	NonOverlappingTemplate
85	76	90	90	70	93	85	86	81	79	0.792713	825/835	NonOverlappingTemplate
89	90	60	91	78	80	84	82	92	89	0.349511	827/835	NonOverlappingTemplate
76	91	87	87	83	74	90	76	104	67	0.196856	826/835	NonOverlappingTemplate
84	88	84	71	73	89	88	67	85	106	0.141014	825/835	NonOverlappingTemplate
78	90	85	94	84	85	90	76	79	74	0.850778	827/835	NonOverlappingTemplate
89	75	87	80	86	91	74	88	92	73	0.755486	824/835	NonOverlappingTemplate
94	84	82	84	80	86	101	86	69	69	0.315615	830/835	NonOverlappingTemplate
95	78	98	74	74	74	78	87	79	98	0.270786	823/835	NonOverlappingTemplate

82	80	83	95	67	83	83	94	87	81	0.674693	825/835	NonOverlappingTemplate
71	71	94	83	82	94	67	105	85	83	0.081474	829/835	NonOverlappingTemplate
76	87	83	72	91	80	94	83	96	73	0.552456	830/835	NonOverlappingTemplate
72	84	86	85	75	84	89	87	94	79	0.860716	829/835	NonOverlappingTemplate
72	104	78	83	83	87	67	92	99	70	0.058136	826/835	NonOverlappingTemplate
75	93	78	98	76	87	76	84	84	84	0.699560	827/835	NonOverlappingTemplate
114	72	70	90	85	72	98	83	75	76	0.011622	819/835	NonOverlappingTemplate
68	90	86	63	102	82	77	79	104	84	0.029380	831/835	NonOverlappingTemplate
72	80	103	79	82	88	76	67	83	105	0.059029	829/835	NonOverlappingTemplate
100	89	87	82	85	82	96	53	74	87	0.032609	826/835	NonOverlappingTemplate
79	87	89	88	68	80	94	80	79	91	0.692124	822/835	OverlappingTemplate
96	107	73	72	98	85	69	78	79	78	0.040712	820/835	Universal
86	88	90	84	86	73	79	92	84	73	0.858751	826/835	ApproximateEntropy
56	45	46	57	43	50	52	48	57	44	0.779971	491/498	RandomExcursions
47	39	55	40	39	59	59	53	53	54	0.225061	491/498	RandomExcursions
48	52	49	42	54	50	45	48	60	50	0.869955	490/498	RandomExcursions
48	43	40	53	53	67	41	54	42	57	0.129772	494/498	RandomExcursions
66	42	28	60	48	53	56	45	48	52	0.016460	494/498	RandomExcursions
60	55	42	57	40	38	50	49	57	50	0.277110	487/498	RandomExcursions
64	43	45	43	61	51	40	47	44	60	0.118036	493/498	RandomExcursions
42	47	46	42	51	41	53	66	53	57	0.242350	490/498	RandomExcursions
39	52	55	57	34	51	51	50	59	50	0.268779	494/498	RandomExcursionsVariant
40	36	58	60	52	43	47	54	53	55	0.225061	492/498	RandomExcursionsVariant
35	46	47	49	45	57	47	66	52	54	0.182977	493/498	RandomExcursionsVariant
35	49	52	42	45	48	59	54	56	58	0.294334	493/498	RandomExcursionsVariant
40	45	48	50	33	56	53	61	57	55	0.139217	492/498	RandomExcursionsVariant
42	58	41	36	34	59	59	58	53	58	0.019760	495/498	RandomExcursionsVariant
37	56	38	47	44	63	50	50	60	53	0.128253	493/498	RandomExcursionsVariant
39	51	45	47	58	58	46	47	58	49	0.559002	493/498	RandomExcursionsVariant
52	52	48	43	48	62	54	53	44	42	0.643494	495/498	RandomExcursionsVariant
48	42	49	44	38	58	54	63	46	56	0.252676	493/498	RandomExcursionsVariant
40	45	46	53	43	49	50	63	56	53	0.477737	493/498	RandomExcursionsVariant
37	42	63	48	37	44	51	66	48	62	0.013300	494/498	RandomExcursionsVariant
43	53	48	41	49	67	44	49	49	55	0.331026	494/498	RandomExcursionsVariant
48	50	55	42	54	62	47	56	37	47	0.363864	492/498	RandomExcursionsVariant
45	54	50	56	47	51	49	57	56	33	0.388039	493/498	RandomExcursionsVariant
40	54	54	51	57	58	53	42	47	42	0.521855	493/498	RandomExcursionsVariant
35	52	58	59	53	51	47	59	40	44	0.182977	494/498	RandomExcursionsVariant
36	40	75	54	44	60	51	49	55	34	0.001032	495/498	RandomExcursionsVariant
88	89	76	84	93	72	75	90	88	80	0.762593	827/835	Serial
72	77	85	88	98	82	92	66	82	93	0.301300	829/835	Serial
80	75	72	81	88	88	101	80	108	62	0.018904	830/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 486 for a sample size = 498 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(ENCRYPT_Real)_freq

FILE = nist_02_encrypt_real_100mb.bin

ALPHA = 0.0100

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(AEAD_Real)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_16_aead_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
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66	76	86	86	86	78	88	95	101	73	0.222284	826/835	Frequency
89	102	88	90	69	91	74	78	79	75	0.272420	823/835	BlockFrequency
66	83	84	65	83	83	94	100	91	86	0.153036	828/835	CumulativeSums
73	77	82	83	91	86	93	81	91	78	0.846725	830/835	CumulativeSums
78	82	95	80	86	98	61	79	96	80	0.156173	827/835	Runs
64	77	105	85	87	90	83	80	74	90	0.157230	822/835	LongestRun
81	92	82	83	92	77	78	89	68	93	0.627085	821/835	Rank
95	93	79	82	94	86	73	84	77	72	0.552456	831/835	FFT
74	84	92	73	92	80	82	70	84	104	0.235193	832/835	NonOverlappingTemplate
87	91	84	77	60	88	93	78	88	89	0.324798	826/835	NonOverlappingTemplate
90	87	81	79	76	89	82	108	67	76	0.150975	828/835	NonOverlappingTemplate
97	75	71	83	72	89	77	99	83	89	0.296051	825/835	NonOverlappingTemplate
91	84	71	77	80	96	78	80	96	82	0.579617	824/835	NonOverlappingTemplate
86	95	91	71	79	105	76	82	70	80	0.157230	826/835	NonOverlappingTemplate
87	78	93	70	75	92	90	86	90	74	0.559831	828/835	NonOverlappingTemplate
90	74	85	82	88	86	82	73	86	89	0.924369	829/835	NonOverlappingTemplate
73	93	80	84	65	97	88	82	87	86	0.400352	826/835	NonOverlappingTemplate
89	81	100	82	86	74	71	77	88	87	0.562295	828/835	NonOverlappingTemplate
91	70	87	77	78	89	100	87	83	73	0.432838	828/835	NonOverlappingTemplate
85	87	78	86	93	71	94	82	86	73	0.702033	826/835	NonOverlappingTemplate
84	85	81	85	70	90	78	90	92	80	0.854787	828/835	NonOverlappingTemplate
80	89	65	92	90	85	70	90	78	96	0.274061	832/835	NonOverlappingTemplate
92	73	77	94	81	74	73	90	83	98	0.383620	823/835	NonOverlappingTemplate
69	86	75	84	88	82	87	87	89	88	0.860716	831/835	NonOverlappingTemplate
83	74	77	84	99	90	88	88	75	77	0.647154	830/835	NonOverlappingTemplate

87	75	95	79	96	83	84	85	68	83	0.564762	824/835	NonOverlappingTemplate
84	68	93	76	65	89	92	98	74	96	0.076795	832/835	NonOverlappingTemplate
75	72	100	76	78	99	78	77	92	88	0.230827	826/835	NonOverlappingTemplate
91	75	80	86	75	80	104	80	78	86	0.487573	824/835	NonOverlappingTemplate
83	85	79	89	73	73	101	94	78	80	0.450726	824/835	NonOverlappingTemplate
86	72	89	94	84	88	95	75	67	85	0.400352	828/835	NonOverlappingTemplate
81	78	87	72	75	88	83	89	91	91	0.830087	823/835	NonOverlappingTemplate
78	97	86	86	81	80	74	86	88	79	0.866540	830/835	NonOverlappingTemplate
70	75	99	86	95	92	75	80	84	79	0.367320	831/835	NonOverlappingTemplate
94	76	86	65	87	81	83	82	95	86	0.518442	823/835	NonOverlappingTemplate
83	90	77	85	92	75	68	89	92	84	0.642137	825/835	NonOverlappingTemplate
90	82	89	77	77	89	78	80	82	91	0.939537	825/835	NonOverlappingTemplate
57	80	85	90	98	87	83	83	95	77	0.123617	828/835	NonOverlappingTemplate
81	67	90	89	90	75	80	92	80	91	0.587075	831/835	NonOverlappingTemplate
78	107	89	75	80	85	84	87	80	70	0.279027	829/835	NonOverlappingTemplate
84	90	68	86	86	83	69	91	97	81	0.430628	826/835	NonOverlappingTemplate
94	76	71	84	78	92	105	69	81	85	0.146922	826/835	NonOverlappingTemplate
68	81	79	103	97	74	79	87	78	89	0.200710	828/835	NonOverlappingTemplate
61	88	98	85	88	90	84	80	89	72	0.225104	828/835	NonOverlappingTemplate
78	83	87	89	79	75	100	64	73	107	0.036743	831/835	NonOverlappingTemplate
100	65	95	77	84	104	78	81	70	81	0.044031	820/835	NonOverlappingTemplate
101	79	94	77	75	79	84	75	91	80	0.473596	824/835	NonOverlappingTemplate
63	93	78	99	83	87	89	74	92	77	0.190567	825/835	NonOverlappingTemplate
83	97	73	78	105	92	83	76	73	75	0.152003	824/835	NonOverlappingTemplate
76	84	90	96	76	91	84	102	55	81	0.030340	825/835	NonOverlappingTemplate
81	71	85	88	90	79	82	81	93	85	0.895710	824/835	NonOverlappingTemplate
98	87	77	87	76	76	79	82	93	80	0.716807	824/835	NonOverlappingTemplate
81	67	84	81	79	100	76	89	90	88	0.457529	825/835	NonOverlappingTemplate
91	72	95	95	70	87	70	93	84	78	0.244115	826/835	NonOverlappingTemplate
93	76	83	82	75	97	76	77	83	93	0.619563	825/835	NonOverlappingTemplate
109	85	97	80	82	73	76	79	81	73	0.125357	827/835	NonOverlappingTemplate
81	93	89	75	84	86	91	77	88	71	0.757861	829/835	NonOverlappingTemplate
78	97	91	78	88	81	72	88	82	80	0.743530	827/835	NonOverlappingTemplate
73	84	86	95	82	88	96	72	80	79	0.619563	825/835	NonOverlappingTemplate
79	82	84	88	87	79	86	79	80	91	0.990063	828/835	NonOverlappingTemplate
89	87	93	62	93	92	80	66	88	85	0.150975	824/835	NonOverlappingTemplate
77	85	73	95	88	73	89	81	88	86	0.757861	829/835	NonOverlappingTemplate
76	80	77	97	72	81	87	86	97	82	0.567232	820/835	NonOverlappingTemplate
74	79	88	82	91	70	87	81	93	90	0.706971	828/835	NonOverlappingTemplate
81	83	90	85	87	78	85	74	86	86	0.982916	834/835	NonOverlappingTemplate
102	88	93	83	88	78	72	83	71	77	0.343701	821/835	NonOverlappingTemplate
79	74	83	78	98	84	75	92	72	100	0.284058	826/835	NonOverlappingTemplate
95	86	69	66	84	87	102	82	83	81	0.196856	827/835	NonOverlappingTemplate
76	88	78	84	82	80	88	82	86	91	0.980394	834/835	NonOverlappingTemplate
91	88	84	81	74	83	85	90	84	75	0.939537	827/835	NonOverlappingTemplate
93	86	83	82	80	80	73	77	91	90	0.872256	825/835	NonOverlappingTemplate
85	89	82	76	87	93	88	79	72	84	0.879704	827/835	NonOverlappingTemplate
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76	82	88	80	86	87	93	82	80	81	0.975432	826/835	NonOverlappingTemplate
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73	81	88	90	87	91	92	68	80	85	0.642137	828/835	NonOverlappingTemplate
77	77	80	82	84	93	88	69	96	89	0.602041	829/835	NonOverlappingTemplate

92	92	83	75	71	92	75	91	80	84	0.627085	828/835	NonOverlappingTemplate
94	75	86	82	81	85	74	79	86	93	0.840564	824/835	NonOverlappingTemplate
88	82	78	83	68	79	82	94	102	79	0.389844	822/835	NonOverlappingTemplate
75	68	96	79	76	105	73	90	78	95	0.067640	826/835	NonOverlappingTemplate
83	64	102	76	89	86	89	78	89	79	0.262727	827/835	NonOverlappingTemplate
74	85	91	73	92	80	83	69	85	103	0.254847	832/835	NonOverlappingTemplate
83	83	82	84	83	81	91	92	73	83	0.963332	826/835	NonOverlappingTemplate
84	76	109	87	74	64	88	68	81	104	0.007061	828/835	NonOverlappingTemplate
75	73	84	86	96	82	82	78	87	92	0.776638	825/835	NonOverlappingTemplate
93	86	79	90	88	88	75	80	82	74	0.870363	829/835	NonOverlappingTemplate
89	80	88	73	93	90	89	82	78	73	0.760230	829/835	NonOverlappingTemplate
73	89	78	79	89	82	87	87	95	76	0.808408	830/835	NonOverlappingTemplate
80	87	79	83	81	80	96	71	86	92	0.788157	829/835	NonOverlappingTemplate
76	71	86	102	74	90	82	85	87	82	0.473596	824/835	NonOverlappingTemplate
88	87	76	68	96	85	82	81	89	83	0.702033	825/835	NonOverlappingTemplate
84	99	83	82	92	75	87	70	73	90	0.448469	830/835	NonOverlappingTemplate
81	97	75	81	88	92	83	83	81	74	0.785868	826/835	NonOverlappingTemplate
68	92	87	83	95	62	83	97	94	74	0.072899	827/835	NonOverlappingTemplate
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70	93	73	83	89	71	87	90	92	87	0.478235	825/835	NonOverlappingTemplate
78	78	69	81	92	95	89	101	65	87	0.116862	826/835	NonOverlappingTemplate
83	80	76	73	92	81	76	77	95	102	0.347567	829/835	NonOverlappingTemplate
85	83	75	92	96	95	73	81	76	79	0.574656	827/835	NonOverlappingTemplate
88	96	69	86	100	77	83	84	75	77	0.355384	832/835	NonOverlappingTemplate
83	81	88	100	72	82	83	74	89	83	0.667196	827/835	NonOverlappingTemplate
90	89	85	81	86	82	87	86	82	67	0.864610	820/835	NonOverlappingTemplate
73	99	84	72	83	90	94	64	86	90	0.169258	827/835	NonOverlappingTemplate
90	81	89	72	84	76	87	66	100	90	0.284058	826/835	NonOverlappingTemplate
76	95	92	76	82	82	86	78	91	77	0.785868	830/835	NonOverlappingTemplate
87	70	93	84	79	73	80	102	83	84	0.408875	827/835	NonOverlappingTemplate
86	85	76	75	89	83	77	96	89	79	0.830087	828/835	NonOverlappingTemplate
89	79	72	90	75	82	86	91	90	81	0.836404	827/835	NonOverlappingTemplate
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78	81	84	74	90	79	106	66	94	83	0.143942	819/835	NonOverlappingTemplate
85	92	66	74	86	98	79	77	95	83	0.299543	827/835	NonOverlappingTemplate
79	76	96	72	72	98	92	92	80	78	0.289154	829/835	NonOverlappingTemplate
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78	87	87	86	74	96	97	80	75	75	0.552456	828/835	NonOverlappingTemplate
77	92	80	63	84	92	79	95	92	81	0.328521	831/835	NonOverlappingTemplate
83	93	81	90	81	84	76	92	79	76	0.893985	827/835	NonOverlappingTemplate
82	88	82	77	91	96	80	81	95	63	0.328521	830/835	NonOverlappingTemplate
76	74	89	74	93	102	93	77	83	74	0.265929	828/835	NonOverlappingTemplate
81	86	92	81	90	75	68	84	86	92	0.704504	829/835	NonOverlappingTemplate
85	85	86	95	90	69	91	83	84	67	0.459808	832/835	NonOverlappingTemplate
68	87	84	93	80	79	80	98	83	83	0.612047	828/835	NonOverlappingTemplate
85	75	88	97	67	99	82	76	84	82	0.328521	827/835	NonOverlappingTemplate
84	80	90	76	82	75	102	66	86	94	0.244115	828/835	NonOverlappingTemplate
89	73	93	72	90	86	84	86	79	83	0.806191	823/835	NonOverlappingTemplate

86	79	95	78	81	81	73	102	87	73	0.402473	828/835	NonOverlappingTemplate
92	65	93	88	87	99	81	67	79	84	0.162606	825/835	NonOverlappingTemplate
81	97	82	94	108	83	70	76	72	72	0.049476	828/835	NonOverlappingTemplate
75	88	76	94	89	83	87	71	94	78	0.612047	822/835	NonOverlappingTemplate
93	78	79	87	77	78	75	86	95	87	0.794979	824/835	NonOverlappingTemplate
88	70	78	84	88	88	90	90	78	81	0.852789	824/835	NonOverlappingTemplate
80	95	79	93	89	74	81	100	67	77	0.230827	831/835	NonOverlappingTemplate
84	85	56	99	94	93	77	88	74	85	0.059934	830/835	NonOverlappingTemplate
91	93	82	91	78	90	89	59	86	76	0.229386	825/835	NonOverlappingTemplate
81	95	88	94	83	72	86	76	79	81	0.745932	829/835	NonOverlappingTemplate
91	81	90	82	84	78	73	95	80	81	0.848757	830/835	NonOverlappingTemplate
67	81	76	99	69	98	88	89	89	79	0.152003	829/835	NonOverlappingTemplate
80	93	80	84	89	82	95	85	71	76	0.741124	828/835	NonOverlappingTemplate
79	80	94	70	77	84	82	69	101	99	0.137188	825/835	NonOverlappingTemplate
89	86	84	76	83	98	73	64	97	85	0.223690	827/835	NonOverlappingTemplate
73	88	89	82	84	75	81	83	85	95	0.870363	828/835	NonOverlappingTemplate
96	84	88	70	74	80	84	74	92	93	0.471285	824/835	NonOverlappingTemplate
75	86	88	91	75	74	85	77	97	87	0.664694	829/835	NonOverlappingTemplate
72	89	84	94	67	87	87	91	76	88	0.485231	830/835	NonOverlappingTemplate
84	83	92	72	83	76	91	98	75	81	0.602041	825/835	NonOverlappingTemplate
69	91	103	66	74	80	80	96	98	78	0.039141	831/835	NonOverlappingTemplate
86	82	94	96	70	85	79	76	81	86	0.674693	826/835	NonOverlappingTemplate
100	79	97	82	74	70	74	87	87	85	0.313801	828/835	NonOverlappingTemplate
74	88	84	87	103	83	73	70	86	87	0.363313	824/835	NonOverlappingTemplate
112	80	95	85	79	85	83	77	73	66	0.043010	822/835	NonOverlappingTemplate
93	79	80	83	86	80	85	80	94	75	0.904132	818/835	NonOverlappingTemplate
83	64	102	77	88	85	90	77	91	78	0.238139	827/835	NonOverlappingTemplate
99	84	85	75	93	83	85	86	89	56	0.105807	826/835	OverlappingTemplate
106	84	85	87	76	76	91	77	72	81	0.310193	821/835	Universal
78	95	91	86	67	77	75	83	91	92	0.441735	826/835	ApproximateEntropy
52	56	49	59	56	56	43	57	54	59	0.905213	534/541	RandomExcursions
62	50	58	48	58	54	60	52	53	46	0.860843	535/541	RandomExcursions
45	62	43	53	59	53	52	63	61	50	0.513755	538/541	RandomExcursions
51	62	51	59	56	44	60	56	62	40	0.395681	537/541	RandomExcursions
46	73	56	43	49	55	58	41	66	54	0.052622	533/541	RandomExcursions
58	61	54	57	40	54	60	52	56	49	0.711827	534/541	RandomExcursions
55	47	41	60	47	66	57	66	46	56	0.192263	534/541	RandomExcursions
54	53	47	60	58	50	57	59	49	54	0.952257	538/541	RandomExcursions
52	53	75	56	51	56	47	55	50	46	0.276980	537/541	RandomExcursionsVariant
55	50	68	68	39	60	45	64	41	51	0.024725	537/541	RandomExcursionsVariant
55	55	63	59	58	50	49	57	45	50	0.832691	538/541	RandomExcursionsVariant
54	71	59	49	61	47	59	38	52	51	0.139773	537/541	RandomExcursionsVariant
61	60	55	52	54	61	46	49	56	47	0.816202	538/541	RandomExcursionsVariant
63	56	51	51	51	54	69	60	44	42	0.247639	541/541	RandomExcursionsVariant
52	67	56	46	60	56	51	48	62	43	0.395681	538/541	RandomExcursionsVariant
54	57	63	52	56	52	49	47	52	59	0.924301	533/541	RandomExcursionsVariant
63	47	50	56	50	67	57	52	57	42	0.412038	532/541	RandomExcursionsVariant
59	46	66	49	56	57	53	55	48	52	0.760120	535/541	RandomExcursionsVariant
56	56	49	60	52	51	66	48	51	52	0.826163	535/541	RandomExcursionsVariant
65	59	49	52	55	53	49	47	57	55	0.848588	536/541	RandomExcursionsVariant
63	57	58	53	52	54	61	56	34	53	0.314321	534/541	RandomExcursionsVariant
60	57	47	53	63	52	52	52	50	55	0.924301	536/541	RandomExcursionsVariant

58	52	56	43	51	56	56	62	49	58	0.839124	537/541	RandomExcursionsVariant
50	54	62	49	47	52	59	48	65	55	0.708044	537/541	RandomExcursionsVariant
51	47	60	50	68	46	56	51	57	55	0.608223	540/541	RandomExcursionsVariant
51	51	55	52	60	51	43	66	47	65	0.408736	539/541	RandomExcursionsVariant
83	110	71	72	98	78	79	81	63	100	0.005109	826/835	Serial
103	74	89	57	93	87	78	85	79	90	0.050247	829/835	Serial
80	87	73	92	87	63	89	91	91	82	0.394028	827/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 528 for a sample size = 541 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(AEAD_Real)_freq

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ALPHA = 0.0100

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BITSREAD = 1000000 0s = 500163 1s = 499837
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(HASH_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_09_hash_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
67	77	83	89	82	66	90	87	102	92	0.139090	827/835	Frequency
85	94	89	100	80	74	88	79	70	76	0.381559	822/835	BlockFrequency
59	87	83	80	83	92	93	81	73	104	0.067134	827/835	CumulativeSums
68	69	102	87	69	90	91	96	81	82	0.079690	828/835	CumulativeSums
91	99	69	88	75	87	73	80	95	78	0.287448	825/835	Runs
76	86	82	84	86	86	86	78	92	79	0.980394	827/835	LongestRun
78	96	81	96	72	92	85	87	70	78	0.398237	828/835	Rank
83	78	86	70	93	84	94	92	70	85	0.516041	827/835	FFT

71	100	106	69	70	86	95	69	84	85	0.016414	827/835	NonOverlappingTemplate
75	99	81	80	87	78	86	76	69	104	0.168134	824/835	NonOverlappingTemplate
89	85	94	73	92	76	91	83	69	83	0.550004	824/835	NonOverlappingTemplate
85	88	74	81	105	64	78	79	83	98	0.097771	823/835	NonOverlappingTemplate
80	83	89	84	80	74	84	72	83	106	0.394028	821/835	NonOverlappingTemplate
84	72	78	85	89	77	99	86	76	89	0.647154	828/835	NonOverlappingTemplate
78	79	89	66	102	66	82	98	81	94	0.057694	824/835	NonOverlappingTemplate
107	95	87	93	83	61	90	75	70	74	0.016277	825/835	NonOverlappingTemplate
72	78	85	90	75	95	82	89	83	86	0.792713	831/835	NonOverlappingTemplate
80	87	79	96	75	78	85	86	93	76	0.783571	826/835	NonOverlappingTemplate
89	90	72	78	95	69	88	89	85	80	0.557370	832/835	NonOverlappingTemplate
72	85	87	81	82	77	77	80	98	96	0.587075	831/835	NonOverlappingTemplate
96	85	72	82	82	84	86	90	83	75	0.830087	830/835	NonOverlappingTemplate
82	81	86	78	68	83	77	73	96	111	0.060852	822/835	NonOverlappingTemplate
84	84	84	79	67	86	105	67	87	92	0.141014	826/835	NonOverlappingTemplate
88	79	84	76	85	82	78	76	100	87	0.767300	825/835	NonOverlappingTemplate
88	80	74	82	78	93	80	90	93	77	0.812817	826/835	NonOverlappingTemplate
78	84	76	87	70	89	91	104	79	77	0.328521	828/835	NonOverlappingTemplate
84	97	81	80	79	84	77	91	82	80	0.907403	829/835	NonOverlappingTemplate
58	77	94	86	86	95	83	89	84	83	0.223690	827/835	NonOverlappingTemplate
84	86	81	75	90	95	81	88	65	90	0.523257	827/835	NonOverlappingTemplate
91	81	82	80	70	91	79	90	80	91	0.797238	821/835	NonOverlappingTemplate
82	87	84	89	84	83	74	82	85	85	0.994866	822/835	NonOverlappingTemplate
80	66	93	75	97	102	76	91	76	79	0.108096	824/835	NonOverlappingTemplate
80	86	94	71	82	79	87	85	94	77	0.764949	829/835	NonOverlappingTemplate
98	66	86	98	81	80	76	82	84	84	0.367320	823/835	NonOverlappingTemplate
84	86	76	78	80	101	85	80	72	93	0.550004	829/835	NonOverlappingTemplate
83	80	87	90	75	85	79	77	101	78	0.684666	833/835	NonOverlappingTemplate
86	86	83	77	83	84	88	77	89	82	0.993709	827/835	NonOverlappingTemplate
95	67	85	90	86	78	89	76	94	75	0.426228	825/835	NonOverlappingTemplate
91	73	106	81	79	80	89	81	69	86	0.233731	828/835	NonOverlappingTemplate
79	81	72	87	84	82	84	79	100	87	0.760230	831/835	NonOverlappingTemplate
86	79	83	94	76	99	81	75	82	80	0.702033	833/835	NonOverlappingTemplate
83	80	83	86	86	91	93	69	84	80	0.852789	823/835	NonOverlappingTemplate
75	83	75	91	85	96	78	77	80	95	0.639628	829/835	NonOverlappingTemplate
69	77	95	96	91	83	101	90	55	78	0.010316	822/835	NonOverlappingTemplate
78	72	79	86	92	91	87	80	84	86	0.895710	825/835	NonOverlappingTemplate
67	88	72	104	86	85	71	92	99	71	0.037035	826/835	NonOverlappingTemplate
96	84	82	94	86	73	78	81	83	78	0.790439	825/835	NonOverlappingTemplate
91	76	78	97	84	70	70	85	101	83	0.209934	824/835	NonOverlappingTemplate
97	91	70	69	80	82	81	87	86	92	0.439501	824/835	NonOverlappingTemplate
78	95	82	85	94	84	84	83	74	76	0.821527	821/835	NonOverlappingTemplate
73	80	81	87	78	89	86	93	80	88	0.910618	830/835	NonOverlappingTemplate
99	74	75	86	83	92	66	81	87	92	0.303064	821/835	NonOverlappingTemplate
74	69	75	66	94	100	95	81	108	73	0.006089	828/835	NonOverlappingTemplate
85	73	85	89	92	66	84	87	94	80	0.537793	830/835	NonOverlappingTemplate
79	88	78	89	84	61	88	90	90	88	0.450726	827/835	NonOverlappingTemplate
94	93	85	83	77	77	70	90	76	90	0.597046	825/835	NonOverlappingTemplate
80	90	83	80	79	79	96	90	81	77	0.890494	825/835	NonOverlappingTemplate
78	73	83	83	90	79	89	82	90	88	0.934234	828/835	NonOverlappingTemplate
79	89	89	100	79	77	75	85	86	76	0.669696	829/835	NonOverlappingTemplate
79	85	73	94	92	72	87	74	89	90	0.582101	830/835	NonOverlappingTemplate

80	97	81	70	84	83	84	91	84	81	0.797238	831/835	NonOverlappingTemplate
81	79	84	96	76	87	85	76	87	84	0.916875	818/835	NonOverlappingTemplate
78	90	86	98	91	63	75	94	87	73	0.165905	830/835	NonOverlappingTemplate
63	87	81	89	84	84	88	90	88	81	0.662191	825/835	NonOverlappingTemplate
99	83	86	83	69	97	71	92	80	75	0.242610	826/835	NonOverlappingTemplate
78	96	84	74	80	78	91	76	91	87	0.733874	827/835	NonOverlappingTemplate
61	89	86	86	96	89	72	84	78	94	0.203312	827/835	NonOverlappingTemplate
80	96	76	89	92	77	74	79	92	80	0.654676	827/835	NonOverlappingTemplate
78	81	84	77	79	103	83	86	71	93	0.450726	824/835	NonOverlappingTemplate
91	79	91	93	85	85	76	62	94	79	0.304835	827/835	NonOverlappingTemplate
80	69	84	86	81	91	82	99	80	83	0.677189	828/835	NonOverlappingTemplate
86	92	86	79	77	87	79	97	56	96	0.080876	827/835	NonOverlappingTemplate
65	72	95	79	84	77	89	90	93	91	0.294316	828/835	NonOverlappingTemplate
89	80	78	91	69	69	102	86	71	100	0.066630	826/835	NonOverlappingTemplate
92	68	81	84	83	78	94	86	88	81	0.743530	823/835	NonOverlappingTemplate
91	82	95	79	75	90	75	80	86	82	0.827962	830/835	NonOverlappingTemplate
69	74	67	84	86	99	85	89	100	82	0.137188	828/835	NonOverlappingTemplate
94	79	79	82	89	82	89	71	83	87	0.862669	828/835	NonOverlappingTemplate
83	64	88	80	88	73	79	98	80	102	0.136245	825/835	NonOverlappingTemplate
82	79	73	79	77	78	75	102	82	108	0.090936	827/835	NonOverlappingTemplate
87	90	80	88	90	69	85	93	76	77	0.697084	825/835	NonOverlappingTemplate
93	77	79	88	79	77	87	82	88	85	0.950571	822/835	NonOverlappingTemplate
71	100	107	69	69	85	96	69	84	85	0.011044	827/835	NonOverlappingTemplate
75	82	88	74	80	78	90	89	88	91	0.870363	831/835	NonOverlappingTemplate
85	68	76	70	84	87	96	87	89	93	0.396129	827/835	NonOverlappingTemplate
83	70	94	61	87	92	83	94	75	96	0.097771	828/835	NonOverlappingTemplate
74	55	94	85	76	95	83	83	97	93	0.037329	828/835	NonOverlappingTemplate
84	90	77	75	86	84	83	84	84	88	0.986806	825/835	NonOverlappingTemplate
66	81	83	79	90	92	76	72	94	102	0.156173	831/835	NonOverlappingTemplate
82	79	82	87	82	85	74	81	90	93	0.951720	827/835	NonOverlappingTemplate
82	102	74	86	76	80	81	85	90	79	0.634611	821/835	NonOverlappingTemplate
89	76	85	78	91	60	85	90	90	91	0.310193	829/835	NonOverlappingTemplate
83	88	86	81	86	88	87	91	72	73	0.876005	822/835	NonOverlappingTemplate
86	97	84	90	68	101	73	79	78	79	0.238139	828/835	NonOverlappingTemplate
84	86	90	81	83	77	76	103	76	79	0.597046	823/835	NonOverlappingTemplate
76	86	83	72	85	83	84	89	89	88	0.947032	826/835	NonOverlappingTemplate
73	81	83	92	83	79	87	96	96	65	0.304835	823/835	NonOverlappingTemplate
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94	73	100	82	81	74	89	81	85	76	0.504100	824/835	NonOverlappingTemplate
88	71	70	93	76	95	86	75	94	87	0.339863	830/835	NonOverlappingTemplate
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91	70	92	70	76	91	80	88	84	93	0.455256	824/835	NonOverlappingTemplate
89	91	77	87	101	70	83	97	65	75	0.096369	825/835	NonOverlappingTemplate
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82	77	65	82	71	93	86	85	94	100	0.191812	825/835	NonOverlappingTemplate
88	65	83	95	77	91	80	89	82	85	0.559831	830/835	NonOverlappingTemplate
88	96	76	82	98	82	84	79	77	73	0.584587	830/835	NonOverlappingTemplate
91	84	78	76	77	87	75	86	96	85	0.810617	822/835	NonOverlappingTemplate
85	70	76	78	84	87	101	92	82	80	0.516041	829/835	NonOverlappingTemplate

76	89	84	90	71	97	78	80	78	92	0.594551	828/835	NonOverlappingTemplate
79	86	73	87	78	81	88	104	90	69	0.303064	820/835	NonOverlappingTemplate
88	89	80	73	90	80	101	75	78	81	0.557370	826/835	NonOverlappingTemplate
77	73	103	88	81	80	83	80	89	81	0.584587	823/835	NonOverlappingTemplate
96	84	84	87	74	81	88	86	79	76	0.877861	825/835	NonOverlappingTemplate
84	95	85	68	92	74	85	82	75	95	0.435053	827/835	NonOverlappingTemplate
92	75	81	83	83	96	74	91	77	83	0.738712	826/835	NonOverlappingTemplate
82	95	86	89	97	84	86	65	84	67	0.226524	824/835	NonOverlappingTemplate
79	86	92	76	68	85	105	87	79	78	0.265929	829/835	NonOverlappingTemplate
80	84	66	99	86	92	71	66	102	89	0.037924	827/835	NonOverlappingTemplate
82	78	88	92	79	83	78	81	83	91	0.967994	830/835	NonOverlappingTemplate
76	91	89	90	74	88	75	82	82	88	0.854787	829/835	NonOverlappingTemplate
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90	89	91	71	67	83	73	98	88	85	0.284058	826/835	NonOverlappingTemplate
102	76	87	88	74	86	89	72	72	89	0.326656	824/835	NonOverlappingTemplate
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86	83	96	80	83	85	87	88	71	76	0.823682	825/835	NonOverlappingTemplate
84	75	96	82	78	74	73	93	102	78	0.264324	830/835	NonOverlappingTemplate
86	80	73	83	80	82	102	74	81	94	0.496989	825/835	NonOverlappingTemplate
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87	73	76	98	76	89	76	93	87	80	0.552456	825/835	NonOverlappingTemplate
88	92	82	72	84	79	83	80	75	100	0.604541	829/835	NonOverlappingTemplate
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75	81	74	99	87	76	79	85	88	91	0.639628	825/835	NonOverlappingTemplate
76	66	101	89	80	75	77	73	99	99	0.047228	824/835	NonOverlappingTemplate
93	63	82	93	75	85	86	75	105	78	0.088969	820/835	NonOverlappingTemplate
61	101	82	85	84	84	84	73	87	94	0.177300	828/835	NonOverlappingTemplate
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73	75	69	90	75	107	82	77	99	88	0.057694	831/835	NonOverlappingTemplate
93	77	79	88	80	76	87	82	88	85	0.947032	822/835	NonOverlappingTemplate
86	84	93	78	76	80	85	72	96	85	0.748329	826/835	OverlappingTemplate
101	88	87	69	83	79	90	93	78	67	0.205941	821/835	Universal
91	92	93	78	87	89	70	76	81	78	0.652169	824/835	ApproximateEntropy
61	57	47	54	62	57	42	47	57	54	0.603762	531/538	RandomExcursions
58	42	59	52	52	48	66	70	49	42	0.086376	536/538	RandomExcursions
45	58	54	50	55	62	56	51	61	46	0.754925	535/538	RandomExcursions
58	53	51	52	50	45	72	53	45	59	0.301084	531/538	RandomExcursions
45	40	50	63	51	54	53	57	63	62	0.329527	528/538	RandomExcursions

51	60	51	57	50	42	51	61	55	60	0.728537	531/538	RandomExcursions
49	61	51	52	60	45	60	56	53	51	0.842453	532/538	RandomExcursions
44	62	52	69	65	49	39	61	57	40	0.022600	531/538	RandomExcursions
62	41	67	44	43	60	53	54	57	57	0.166922	531/538	RandomExcursionsVariant
56	64	53	45	44	45	52	65	49	65	0.204933	530/538	RandomExcursionsVariant
62	56	61	53	41	54	42	47	67	55	0.192862	529/538	RandomExcursionsVariant
62	56	66	44	42	48	48	62	48	62	0.155072	530/538	RandomExcursionsVariant
65	49	56	46	52	58	49	57	53	53	0.815853	525/538	RandomExcursionsVariant
53	59	64	48	58	49	48	55	58	46	0.724721	532/538	RandomExcursionsVariant
56	52	61	58	46	53	50	65	46	51	0.670474	535/538	RandomExcursionsVariant
55	58	52	61	46	63	43	65	46	49	0.317937	534/538	RandomExcursionsVariant
54	57	50	52	45	66	46	62	46	60	0.418341	534/538	RandomExcursionsVariant
49	52	56	56	54	49	60	55	48	59	0.958827	534/538	RandomExcursionsVariant
45	41	58	55	73	50	46	54	53	63	0.090419	532/538	RandomExcursionsVariant
46	48	55	48	55	68	54	57	50	57	0.631226	531/538	RandomExcursionsVariant
40	59	51	61	61	44	75	50	51	46	0.033047	536/538	RandomExcursionsVariant
37	60	52	58	64	68	57	41	51	50	0.066098	538/538	RandomExcursionsVariant
43	55	49	47	68	51	60	53	52	60	0.425173	537/538	RandomExcursionsVariant
36	57	48	47	53	65	51	57	60	64	0.153438	536/538	RandomExcursionsVariant
44	47	46	51	69	50	53	72	51	55	0.086376	537/538	RandomExcursionsVariant
40	54	46	46	72	45	62	56	59	58	0.068474	537/538	RandomExcursionsVariant
90	90	82	82	76	91	75	87	83	79	0.928687	822/835	Serial
80	96	91	79	73	90	86	81	75	84	0.755486	824/835	Serial
70	80	82	91	95	72	86	101	91	67	0.122754	826/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 525 for a sample size = 538 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(HASH_Trap)_freq

FILE = nist_09_hash_trap_100mb.bin

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BITSREAD = 1000000 0s = 500489 1s = 499511
BITSREAD = 1000000 0s = 499900 1s = 500100
BITSREAD = 1000000 0s = 499743 1s = 500257
BITSREAD = 1000000 0s = 500626 1s = 499374
BITSREAD = 1000000 0s = 499975 1s = 500025
BITSREAD = 1000000 0s = 500294 1s = 499706
BITSREAD = 1000000 0s = 499723 1s = 500277
BITSREAD = 1000000 0s = 499979 1s = 500021
BITSREAD = 1000000 0s = 499936 1s = 500064
BITSREAD = 1000000 0s = 499635 1s = 500365
BITSREAD = 1000000 0s = 498991 1s = 501009
BITSREAD = 1000000 0s = 499751 1s = 500249
BITSREAD = 1000000 0s = 500038 1s = 499962
BITSREAD = 1000000 0s = 499749 1s = 500251
BITSREAD = 1000000 0s = 499548 1s = 500452
BITSREAD = 1000000 0s = 500537 1s = 499463
BITSREAD = 1000000 0s = 499366 1s = 500634
BITSREAD = 1000000 0s = 500174 1s = 499826
BITSREAD = 1000000 0s = 500303 1s = 499697
BITSREAD = 1000000 0s = 499668 1s = 500332
BITSREAD = 1000000 0s = 499853 1s = 500147
BITSREAD = 1000000 0s = 499825 1s = 500175
BITSREAD = 1000000 0s = 499969 1s = 500031
BITSREAD = 1000000 0s = 499537 1s = 500463
BITSREAD = 1000000 0s = 500021 1s = 499979
BITSREAD = 1000000 0s = 500008 1s = 499992
BITSREAD = 1000000 0s = 500556 1s = 499444
BITSREAD = 1000000 0s = 500390 1s = 499610
BITSREAD = 1000000 0s = 499327 1s = 500673
BITSREAD = 1000000 0s = 499982 1s = 500018
BITSREAD = 1000000 0s = 499878 1s = 500122
BITSREAD = 1000000 0s = 499495 1s = 500505

(SIGN_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_13_sign_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
----	----	----	----	----	----	----	----	----	-----	---------	------------	------------------

97	88	79	76	79	79	81	91	69	96	0.432838	824/835	Frequency
86	99	72	72	74	88	96	91	68	89	0.147926	827/835	BlockFrequency
101	83	81	73	91	70	73	81	97	85	0.235193	823/835	CumulativeSums
99	96	82	58	82	77	87	80	78	96	0.072357	827/835	CumulativeSums
93	82	74	88	81	75	80	86	85	91	0.886949	828/835	Runs
79	80	87	80	87	85	86	82	98	71	0.797238	827/835	LongestRun
84	92	92	87	77	77	82	98	67	79	0.435053	827/835	Rank
90	78	91	76	88	91	80	73	78	90	0.785868	827/835	FFT
92	71	75	103	91	92	79	97	65	70	0.029380	829/835	NonOverlappingTemplate
79	97	80	84	70	82	85	86	75	97	0.532933	829/835	NonOverlappingTemplate
85	93	69	89	74	89	86	77	77	96	0.487573	828/835	NonOverlappingTemplate
98	86	98	83	75	79	70	73	84	89	0.336054	827/835	NonOverlappingTemplate
88	93	95	97	75	83	80	84	68	72	0.299543	824/835	NonOverlappingTemplate
79	91	89	91	81	94	76	91	63	80	0.353419	827/835	NonOverlappingTemplate
90	91	81	92	71	83	79	82	88	78	0.840564	829/835	NonOverlappingTemplate
72	95	90	80	74	81	78	95	87	83	0.622070	825/835	NonOverlappingTemplate
84	95	83	87	88	78	82	78	86	74	0.915332	833/835	NonOverlappingTemplate
88	93	79	98	73	84	77	99	74	70	0.204623	825/835	NonOverlappingTemplate
89	86	90	82	89	93	63	89	74	80	0.426228	828/835	NonOverlappingTemplate
73	82	78	86	78	93	83	72	99	91	0.489919	828/835	NonOverlappingTemplate
93	88	82	81	65	75	97	90	78	86	0.383620	825/835	NonOverlappingTemplate
84	101	84	85	74	63	80	83	94	87	0.241113	829/835	NonOverlappingTemplate
90	73	78	85	95	83	87	87	84	73	0.790439	827/835	NonOverlappingTemplate
77	103	81	77	91	91	70	74	74	97	0.136245	827/835	NonOverlappingTemplate
78	86	95	84	72	90	82	88	82	78	0.848757	829/835	NonOverlappingTemplate
75	96	76	90	77	88	91	69	91	82	0.471285	828/835	NonOverlappingTemplate
82	93	94	98	74	82	84	69	74	85	0.369333	826/835	NonOverlappingTemplate
93	83	87	70	79	86	77	99	82	79	0.589565	824/835	NonOverlappingTemplate
87	86	93	74	72	86	96	76	83	82	0.669696	826/835	NonOverlappingTemplate
92	76	92	64	94	86	80	89	82	80	0.426228	826/835	NonOverlappingTemplate
82	73	94	82	73	90	86	76	92	87	0.704504	828/835	NonOverlappingTemplate
91	68	88	74	89	81	93	89	72	90	0.443974	827/835	NonOverlappingTemplate
78	80	73	97	86	95	81	81	83	81	0.743530	828/835	NonOverlappingTemplate
86	82	72	73	91	77	86	82	94	92	0.684666	827/835	NonOverlappingTemplate
80	82	82	89	86	86	84	92	78	76	0.976185	831/835	NonOverlappingTemplate
88	78	82	89	75	95	92	79	79	78	0.815008	826/835	NonOverlappingTemplate
83	91	86	77	93	80	90	75	78	82	0.890494	824/835	NonOverlappingTemplate
97	94	74	84	78	78	84	98	68	80	0.279027	820/835	NonOverlappingTemplate
83	92	80	103	65	90	71	79	88	84	0.179655	829/835	NonOverlappingTemplate
89	84	81	74	94	82	86	91	75	79	0.852789	825/835	NonOverlappingTemplate
92	86	79	87	89	66	84	91	85	76	0.657182	829/835	NonOverlappingTemplate
95	78	65	74	81	96	79	108	73	86	0.034757	827/835	NonOverlappingTemplate

75	82	85	93	85	88	84	80	86	77	0.962354	826/835	NonOverlappingTemplate
79	81	74	74	92	92	79	105	79	80	0.313801	826/835	NonOverlappingTemplate
77	74	102	79	105	82	81	89	65	81	0.062252	829/835	NonOverlappingTemplate
75	80	88	82	75	96	89	84	81	85	0.872256	824/835	NonOverlappingTemplate
100	86	81	83	75	76	68	85	96	85	0.363313	824/835	NonOverlappingTemplate
87	88	78	91	79	84	68	98	76	86	0.545110	828/835	NonOverlappingTemplate
73	90	84	76	85	83	84	83	81	96	0.872256	826/835	NonOverlappingTemplate
79	82	102	98	79	91	64	81	67	92	0.053854	828/835	NonOverlappingTemplate
89	82	89	79	85	80	93	74	86	78	0.922899	830/835	NonOverlappingTemplate
76	86	91	82	94	90	81	81	71	83	0.801731	826/835	NonOverlappingTemplate
75	73	76	79	95	88	86	81	86	96	0.627085	829/835	NonOverlappingTemplate
89	75	77	93	91	75	90	68	97	80	0.337955	829/835	NonOverlappingTemplate
82	72	70	87	98	80	96	89	84	77	0.398237	827/835	NonOverlappingTemplate
85	73	90	93	85	91	74	80	78	86	0.801731	826/835	NonOverlappingTemplate
67	90	85	87	86	88	88	88	84	72	0.699560	829/835	NonOverlappingTemplate
81	86	104	75	76	93	86	78	74	82	0.398237	827/835	NonOverlappingTemplate
84	81	85	82	78	85	88	81	77	94	0.974665	831/835	NonOverlappingTemplate
74	99	103	88	72	85	82	82	82	68	0.143942	824/835	NonOverlappingTemplate
81	78	75	82	89	86	90	82	93	79	0.931490	824/835	NonOverlappingTemplate
81	97	94	88	84	72	72	82	76	89	0.520848	828/835	NonOverlappingTemplate
85	86	75	91	77	91	64	82	98	86	0.343701	825/835	NonOverlappingTemplate
82	86	90	88	76	85	95	82	73	78	0.842628	827/835	NonOverlappingTemplate
68	85	86	80	80	98	85	83	86	84	0.743530	830/835	NonOverlappingTemplate
77	81	88	92	92	73	83	83	82	84	0.913775	827/835	NonOverlappingTemplate
66	88	57	81	93	100	93	103	85	69	0.002866	828/835	NonOverlappingTemplate
77	100	84	85	71	87	72	91	80	88	0.480562	826/835	NonOverlappingTemplate
84	74	98	78	88	85	82	72	91	83	0.679683	828/835	NonOverlappingTemplate
83	75	95	80	73	74	84	90	91	90	0.662191	829/835	NonOverlappingTemplate
82	63	75	93	85	78	81	83	96	99	0.195585	825/835	NonOverlappingTemplate
82	98	84	71	77	86	89	85	92	71	0.513645	828/835	NonOverlappingTemplate
82	102	90	75	80	74	88	80	74	90	0.457529	827/835	NonOverlappingTemplate
89	87	94	86	85	86	78	85	76	69	0.774314	826/835	NonOverlappingTemplate
76	88	93	78	94	92	65	79	85	85	0.435053	822/835	NonOverlappingTemplate
73	91	93	75	74	100	86	85	76	82	0.421852	830/835	NonOverlappingTemplate
85	68	91	76	72	78	79	84	108	94	0.088969	832/835	NonOverlappingTemplate
90	75	68	95	90	84	86	103	73	71	0.112804	828/835	NonOverlappingTemplate
75	79	82	79	92	77	81	95	80	95	0.719257	830/835	NonOverlappingTemplate
81	75	95	80	86	88	80	74	91	85	0.836404	829/835	NonOverlappingTemplate
82	72	83	85	90	90	80	89	78	86	0.932870	827/835	NonOverlappingTemplate
82	88	95	68	78	100	98	78	81	67	0.099908	828/835	NonOverlappingTemplate
92	71	75	103	92	90	80	98	64	70	0.024585	829/835	NonOverlappingTemplate
78	94	93	79	90	104	68	73	77	79	0.137188	821/835	NonOverlappingTemplate
78	92	88	78	82	91	86	96	68	76	0.523257	823/835	NonOverlappingTemplate
86	90	70	78	83	82	80	83	88	95	0.817190	822/835	NonOverlappingTemplate
73	72	85	78	67	114	87	81	81	97	0.016008	824/835	NonOverlappingTemplate
74	98	84	89	77	90	81	86	76	80	0.738712	827/835	NonOverlappingTemplate
86	76	72	77	104	81	79	82	96	82	0.334160	828/835	NonOverlappingTemplate
67	87	82	98	81	71	81	91	83	94	0.345630	831/835	NonOverlappingTemplate
69	87	95	82	81	99	74	89	75	84	0.381559	830/835	NonOverlappingTemplate
92	91	83	87	68	84	93	80	75	82	0.662191	826/835	NonOverlappingTemplate
81	72	91	85	79	75	85	103	85	79	0.494628	823/835	NonOverlappingTemplate
73	93	70	99	67	79	93	76	98	87	0.077942	824/835	NonOverlappingTemplate

86	71	92	88	98	79	78	77	89	77	0.572178	824/835	NonOverlappingTemplate
74	74	92	79	76	96	87	90	96	71	0.326656	826/835	NonOverlappingTemplate
78	87	81	82	70	93	93	88	89	74	0.667196	829/835	NonOverlappingTemplate
89	71	98	72	90	84	85	71	85	90	0.404600	830/835	NonOverlappingTemplate
71	86	80	76	84	101	86	75	85	91	0.518442	824/835	NonOverlappingTemplate
66	102	88	85	87	73	82	71	102	79	0.069701	825/835	NonOverlappingTemplate
99	94	73	89	93	77	76	80	82	72	0.351461	825/835	NonOverlappingTemplate
98	88	82	94	79	90	66	68	83	87	0.233731	823/835	NonOverlappingTemplate
88	85	77	87	91	81	70	89	74	93	0.694605	823/835	NonOverlappingTemplate
77	98	78	74	86	89	86	92	80	75	0.644646	823/835	NonOverlappingTemplate
72	78	86	87	86	88	90	93	82	73	0.790439	830/835	NonOverlappingTemplate
81	94	83	78	77	94	87	80	88	73	0.788157	827/835	NonOverlappingTemplate
80	77	100	76	89	80	83	77	81	92	0.677189	827/835	NonOverlappingTemplate
88	108	76	75	90	88	77	84	78	71	0.183234	830/835	NonOverlappingTemplate
101	78	87	86	83	93	71	80	79	77	0.516041	820/835	NonOverlappingTemplate
91	83	77	80	92	75	76	87	91	83	0.866540	825/835	NonOverlappingTemplate
87	71	100	75	106	85	78	83	77	73	0.104304	820/835	NonOverlappingTemplate
82	91	88	74	91	92	72	82	76	87	0.733874	818/835	NonOverlappingTemplate
78	82	86	70	78	78	93	92	89	89	0.729019	830/835	NonOverlappingTemplate
91	74	72	99	89	75	68	98	81	88	0.150975	826/835	NonOverlappingTemplate
82	94	81	84	82	63	90	92	69	98	0.162606	827/835	NonOverlappingTemplate
68	73	86	93	94	80	81	77	97	86	0.371354	827/835	NonOverlappingTemplate
71	73	81	95	101	91	88	81	92	62	0.066131	828/835	NonOverlappingTemplate
89	61	84	86	69	83	75	112	81	95	0.010858	824/835	NonOverlappingTemplate
80	89	70	87	83	85	91	80	75	95	0.719257	825/835	NonOverlappingTemplate
70	82	96	92	86	90	82	75	90	72	0.475913	831/835	NonOverlappingTemplate
89	90	71	64	92	98	81	87	81	82	0.269160	828/835	NonOverlappingTemplate
87	97	82	83	89	84	83	91	76	63	0.419674	827/835	NonOverlappingTemplate
65	85	79	93	81	80	88	85	91	88	0.644646	830/835	NonOverlappingTemplate
89	88	81	87	85	75	70	84	92	84	0.848757	829/835	NonOverlappingTemplate
106	76	85	71	81	82	80	78	79	97	0.226524	828/835	NonOverlappingTemplate
90	98	76	71	85	85	83	87	73	87	0.604541	823/835	NonOverlappingTemplate
75	78	84	85	88	87	95	93	65	85	0.482894	830/835	NonOverlappingTemplate
76	83	83	96	71	79	80	92	98	77	0.457529	826/835	NonOverlappingTemplate
93	76	77	97	78	87	74	87	84	82	0.711896	822/835	NonOverlappingTemplate
80	100	87	82	88	69	78	87	78	86	0.599543	825/835	NonOverlappingTemplate
72	85	104	86	88	76	72	89	97	66	0.076795	825/835	NonOverlappingTemplate
76	81	97	98	82	78	80	89	75	79	0.582101	830/835	NonOverlappingTemplate
92	88	83	95	89	79	76	78	77	78	0.810617	823/835	NonOverlappingTemplate
75	81	66	82	91	90	88	77	102	83	0.292588	829/835	NonOverlappingTemplate
86	79	86	83	68	87	89	84	83	90	0.886949	826/835	NonOverlappingTemplate
84	92	74	89	85	96	78	89	73	75	0.617057	826/835	NonOverlappingTemplate
96	78	79	98	82	84	77	80	74	87	0.639628	825/835	NonOverlappingTemplate
88	78	96	86	95	74	78	87	87	66	0.381559	829/835	NonOverlappingTemplate
99	68	89	78	90	85	80	67	88	91	0.247146	830/835	NonOverlappingTemplate
73	92	86	92	91	84	76	77	87	77	0.769644	826/835	NonOverlappingTemplate
94	87	85	78	93	89	80	73	75	81	0.762593	831/835	NonOverlappingTemplate
95	78	95	86	72	84	87	79	80	79	0.736295	826/835	NonOverlappingTemplate
87	94	87	80	87	78	87	77	85	73	0.888728	825/835	NonOverlappingTemplate
78	80	75	90	90	81	100	92	64	85	0.257977	828/835	NonOverlappingTemplate
79	82	83	83	93	87	82	91	87	68	0.808408	827/835	NonOverlappingTemplate
79	82	95	84	81	86	73	79	94	82	0.836404	830/835	NonOverlappingTemplate

86	83	93	84	81	82	76	81	85	84	0.990063	827/835	NonOverlappingTemplate
74	87	82	101	85	76	90	71	85	84	0.523257	828/835	NonOverlappingTemplate
70	83	94	99	93	88	69	85	80	74	0.238139	826/835	NonOverlappingTemplate
78	79	97	60	88	84	76	85	104	84	0.077942	829/835	NonOverlappingTemplate
59	79	91	81	87	76	86	92	95	89	0.213989	829/835	NonOverlappingTemplate
80	80	77	81	84	76	98	99	65	95	0.174971	820/835	NonOverlappingTemplate
83	90	81	86	82	68	79	93	84	89	0.806191	826/835	NonOverlappingTemplate
76	96	90	76	71	83	97	84	84	78	0.511252	830/835	NonOverlappingTemplate
89	88	80	77	66	91	83	93	85	83	0.659687	822/835	NonOverlappingTemplate
82	89	93	70	77	100	97	76	84	67	0.135308	828/835	NonOverlappingTemplate
85	89	87	91	80	98	85	67	83	70	0.398237	829/835	OverlappingTemplate
82	91	79	85	95	75	85	86	72	85	0.817190	828/835	Universal
80	88	78	92	72	76	97	93	80	79	0.574656	829/835	ApproximateEntropy
40	48	51	48	50	55	55	46	71	41	0.124476	502/505	RandomExcursions
45	46	60	38	51	63	55	42	55	50	0.250558	499/505	RandomExcursions
44	56	56	59	59	44	36	46	54	51	0.296834	502/505	RandomExcursions
46	50	46	50	47	42	51	64	52	57	0.626709	494/505	RandomExcursions
46	44	56	44	51	54	52	53	55	50	0.936823	503/505	RandomExcursions
62	54	52	54	52	54	42	37	53	45	0.406499	498/505	RandomExcursions
49	69	47	47	48	37	54	55	46	53	0.192724	502/505	RandomExcursions
41	42	57	47	43	59	51	63	50	52	0.339271	498/505	RandomExcursions
54	56	51	49	44	55	52	51	48	45	0.965083	500/505	RandomExcursionsVariant
56	50	48	50	54	53	54	51	43	46	0.966626	502/505	RandomExcursionsVariant
53	45	57	54	55	56	29	53	59	44	0.104371	499/505	RandomExcursionsVariant
58	51	44	53	54	56	43	50	58	38	0.496351	502/505	RandomExcursionsVariant
57	45	55	47	59	46	41	53	49	53	0.729870	501/505	RandomExcursionsVariant
48	50	56	59	46	45	49	56	53	43	0.821937	501/505	RandomExcursionsVariant
43	54	40	70	58	43	47	54	51	45	0.103138	499/505	RandomExcursionsVariant
42	48	57	63	49	48	55	50	47	46	0.655854	501/505	RandomExcursionsVariant
50	49	51	51	54	42	49	37	59	63	0.345650	499/505	RandomExcursionsVariant
46	60	59	56	50	43	51	45	51	44	0.647530	501/505	RandomExcursionsVariant
45	53	53	50	44	52	60	46	51	51	0.910091	501/505	RandomExcursionsVariant
45	50	42	52	54	54	50	50	56	52	0.951205	503/505	RandomExcursionsVariant
39	52	55	53	49	61	53	35	56	52	0.268917	503/505	RandomExcursionsVariant
40	47	53	54	57	50	42	54	64	44	0.358641	502/505	RandomExcursionsVariant
39	51	62	52	45	40	57	57	54	48	0.329850	502/505	RandomExcursionsVariant
47	46	63	39	45	60	48	50	54	53	0.402962	501/505	RandomExcursionsVariant
49	50	49	52	37	58	61	52	55	42	0.431754	501/505	RandomExcursionsVariant
47	47	51	45	53	55	47	53	61	46	0.862883	502/505	RandomExcursionsVariant
87	72	81	85	76	88	97	76	90	83	0.721703	832/835	Serial
81	78	83	73	92	97	77	80	90	84	0.736295	832/835	Serial
68	74	88	86	95	78	83	80	90	93	0.530508	828/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 493 for a sample size = 505 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(SIGN_Trap)_freq

FILE = nist_13_sign_trap_100mb.bin

ALPHA = 0.0100

BITSREAD = 1000000 0s = 500674 1s = 499326
BITSREAD = 1000000 0s = 499634 1s = 500366
BITSREAD = 1000000 0s = 499398 1s = 500602
BITSREAD = 1000000 0s = 500139 1s = 499861
BITSREAD = 1000000 0s = 499627 1s = 500373
BITSREAD = 1000000 0s = 499932 1s = 500068
BITSREAD = 1000000 0s = 500547 1s = 499453
BITSREAD = 1000000 0s = 499628 1s = 500372
BITSREAD = 1000000 0s = 500628 1s = 499372
BITSREAD = 1000000 0s = 499785 1s = 500215
BITSREAD = 1000000 0s = 500160 1s = 499840
BITSREAD = 1000000 0s = 500624 1s = 499376
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(PRNG_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_11_prng_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
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78	94	80	79	97	95	78	69	77	88	0.387763	828/835	Frequency
74	81	90	78	82	90	81	92	81	86	0.930096	826/835	BlockFrequency
83	91	81	76	92	94	86	80	73	79	0.792713	831/835	CumulativeSums
78	97	78	70	87	88	84	87	67	99	0.220884	828/835	CumulativeSums
76	84	83	97	74	85	77	89	70	100	0.321103	825/835	Runs
75	101	75	77	66	81	88	90	90	92	0.220884	829/835	LongestRun
88	80	68	74	81	98	89	88	75	94	0.365313	829/835	Rank
74	98	84	72	80	63	111	93	68	92	0.003682	824/835	FFT
82	86	79	83	77	85	78	85	87	93	0.979728	821/835	NonOverlappingTemplate
88	80	90	86	76	87	81	69	88	90	0.817190	825/835	NonOverlappingTemplate
80	72	76	77	94	91	70	100	76	99	0.121897	833/835	NonOverlappingTemplate
80	100	82	79	89	84	74	81	73	93	0.567232	825/835	NonOverlappingTemplate
76	85	83	87	81	83	85	83	78	94	0.975432	828/835	NonOverlappingTemplate
98	70	89	87	82	102	73	76	81	77	0.212631	823/835	NonOverlappingTemplate
86	85	58	71	88	98	82	98	96	73	0.030831	825/835	NonOverlappingTemplate
85	87	93	94	61	94	72	86	85	78	0.207265	828/835	NonOverlappingTemplate
89	83	76	78	101	85	71	79	82	91	0.535361	827/835	NonOverlappingTemplate
88	70	87	77	84	86	93	91	80	79	0.801731	827/835	NonOverlappingTemplate
81	89	90	88	68	73	80	92	90	84	0.639628	826/835	NonOverlappingTemplate
90	71	79	78	88	91	80	86	88	84	0.881535	828/835	NonOverlappingTemplate
92	94	87	65	97	73	87	84	74	82	0.256408	829/835	NonOverlappingTemplate
84	92	75	74	98	80	76	99	73	84	0.315615	820/835	NonOverlappingTemplate
82	82	91	65	98	66	97	75	81	98	0.052222	830/835	NonOverlappingTemplate
79	84	80	91	85	78	81	94	84	79	0.958286	829/835	NonOverlappingTemplate
89	85	87	90	68	64	81	74	103	94	0.075103	827/835	NonOverlappingTemplate

88	90	80	81	77	55	97	88	95	84	0.082077	829/835	NonOverlappingTemplate
80	93	100	82	80	88	80	86	75	71	0.540228	830/835	NonOverlappingTemplate
85	82	79	80	73	82	84	87	88	95	0.922899	825/835	NonOverlappingTemplate
82	76	100	86	98	89	76	56	86	86	0.049860	827/835	NonOverlappingTemplate
88	96	85	90	82	83	81	82	79	69	0.778956	828/835	NonOverlappingTemplate
84	82	96	75	89	82	68	88	83	88	0.679683	827/835	NonOverlappingTemplate
83	74	80	96	76	95	84	91	71	85	0.532933	831/835	NonOverlappingTemplate
81	77	82	87	87	80	96	71	79	95	0.669696	828/835	NonOverlappingTemplate
91	80	69	88	95	71	95	74	95	77	0.219492	831/835	NonOverlappingTemplate
81	84	82	76	100	78	89	74	87	84	0.733874	825/835	NonOverlappingTemplate
91	85	90	86	80	69	94	81	80	79	0.760230	829/835	NonOverlappingTemplate
78	74	93	81	77	79	102	72	84	95	0.296051	830/835	NonOverlappingTemplate
84	81	77	93	78	85	73	102	81	81	0.564762	830/835	NonOverlappingTemplate
94	89	108	87	73	71	75	85	81	72	0.094299	827/835	NonOverlappingTemplate
73	91	72	86	76	91	88	87	77	94	0.607042	828/835	NonOverlappingTemplate
62	87	90	85	88	97	95	76	82	73	0.194321	831/835	NonOverlappingTemplate
91	85	82	74	87	75	84	73	98	86	0.657182	826/835	NonOverlappingTemplate
72	90	86	95	85	79	79	89	69	91	0.545110	830/835	NonOverlappingTemplate
75	86	92	80	85	81	88	87	92	69	0.750720	827/835	NonOverlappingTemplate
99	64	91	75	94	77	73	88	98	76	0.073993	828/835	NonOverlappingTemplate
78	71	81	77	82	105	78	81	93	89	0.322947	823/835	NonOverlappingTemplate
98	74	80	85	77	76	77	88	96	84	0.569704	818/835	NonOverlappingTemplate
102	76	76	81	87	83	84	93	65	88	0.262727	824/835	NonOverlappingTemplate
92	75	88	79	64	85	69	90	109	84	0.038225	819/835	NonOverlappingTemplate
85	84	62	96	85	70	87	100	85	81	0.150975	828/835	NonOverlappingTemplate
97	87	89	91	72	78	92	83	72	74	0.443974	825/835	NonOverlappingTemplate
97	78	81	73	70	79	93	88	83	93	0.450726	825/835	NonOverlappingTemplate
76	71	86	100	93	73	77	103	80	76	0.112804	830/835	NonOverlappingTemplate
79	90	90	95	72	80	93	87	75	74	0.552456	826/835	NonOverlappingTemplate
87	93	96	79	88	95	73	71	82	71	0.322947	821/835	NonOverlappingTemplate
72	82	73	79	76	109	81	93	78	92	0.117688	830/835	NonOverlappingTemplate
78	84	87	85	89	85	73	83	84	87	0.982306	824/835	NonOverlappingTemplate
77	74	91	92	87	91	98	72	74	79	0.396129	827/835	NonOverlappingTemplate
82	92	95	84	83	88	79	74	75	83	0.836404	829/835	NonOverlappingTemplate
72	92	84	80	85	90	88	81	86	77	0.905774	830/835	NonOverlappingTemplate
84	91	83	80	81	86	89	83	77	81	0.992026	830/835	NonOverlappingTemplate
88	77	86	82	73	82	96	84	86	81	0.892246	831/835	NonOverlappingTemplate
72	93	81	81	72	81	82	92	91	90	0.677189	829/835	NonOverlappingTemplate
65	74	88	95	79	99	91	73	78	93	0.134376	833/835	NonOverlappingTemplate
77	91	90	83	60	90	86	87	83	88	0.404600	827/835	NonOverlappingTemplate
73	87	96	88	88	80	76	79	91	77	0.726584	832/835	NonOverlappingTemplate
80	95	95	94	78	68	80	80	75	90	0.381559	822/835	NonOverlappingTemplate
71	72	94	94	91	95	86	71	87	74	0.235193	826/835	NonOverlappingTemplate
68	79	78	85	77	74	93	94	90	97	0.328521	827/835	NonOverlappingTemplate
82	79	87	77	85	77	81	85	92	90	0.965243	831/835	NonOverlappingTemplate
72	63	95	95	106	78	90	78	77	81	0.037626	829/835	NonOverlappingTemplate
94	90	102	76	81	70	79	77	92	74	0.233731	823/835	NonOverlappingTemplate
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88	64	90	67	95	76	92	84	78	101	0.070225	824/835	NonOverlappingTemplate
75	73	91	86	79	71	102	85	75	98	0.178474	828/835	NonOverlappingTemplate
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71	96	78	76	81	67	88	84	97	97	0.170388	827/835	NonOverlappingTemplate
76	73	83	91	93	72	71	95	95	86	0.308400	828/835	NonOverlappingTemplate
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94	83	68	79	73	107	84	79	77	91	0.125357	828/835	NonOverlappingTemplate
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78	81	86	80	78	73	103	94	79	83	0.480562	829/835	NonOverlappingTemplate
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70	79	86	99	64	87	86	90	81	93	0.218106	824/835	NonOverlappingTemplate
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91	90	73	88	82	93	85	69	77	87	0.624577	825/835	NonOverlappingTemplate
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76	69	82	87	110	87	80	76	85	83	0.168134	827/835	NonOverlappingTemplate
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76	81	85	81	91	90	84	83	83	81	0.988742	825/835	NonOverlappingTemplate
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72	95	99	110	85	76	81	72	68	77	0.015874	824/835	NonOverlappingTemplate

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81	68	75	89	80	86	92	101	79	84	0.413175	826/835	NonOverlappingTemplate
69	84	86	88	90	73	84	84	80	97	0.629593	829/835	NonOverlappingTemplate
101	94	74	78	71	80	82	85	83	87	0.462093	822/835	NonOverlappingTemplate
88	73	85	83	94	93	82	82	72	83	0.769644	826/835	NonOverlappingTemplate
87	81	79	75	87	82	71	87	99	87	0.677189	830/835	NonOverlappingTemplate
94	92	69	76	83	70	88	89	83	91	0.443974	822/835	OverlappingTemplate
94	96	88	80	68	86	74	99	74	76	0.194321	819/835	Universal
82	88	84	90	78	90	80	94	74	75	0.823682	824/835	ApproximateEntropy
51	49	62	45	56	47	45	33	65	50	0.088226	497/503	RandomExcursions
52	51	65	40	53	41	59	40	58	44	0.121616	497/503	RandomExcursions
51	44	50	58	46	55	54	53	48	44	0.901959	499/503	RandomExcursions
52	37	51	48	63	42	46	61	56	47	0.221317	496/503	RandomExcursions
48	44	43	46	54	55	56	50	50	57	0.866097	500/503	RandomExcursions
36	44	58	54	49	52	57	55	49	49	0.548314	500/503	RandomExcursions
53	49	41	53	43	59	58	45	46	56	0.593478	500/503	RandomExcursions
43	60	49	47	50	51	55	47	49	52	0.912724	498/503	RandomExcursions
50	40	58	48	50	48	48	65	49	47	0.512137	502/503	RandomExcursionsVariant
49	48	50	54	46	45	55	56	51	49	0.980883	503/503	RandomExcursionsVariant
49	48	51	43	64	49	44	55	49	51	0.709558	501/503	RandomExcursionsVariant
42	47	57	45	52	50	50	53	57	50	0.899171	500/503	RandomExcursionsVariant
41	54	55	51	48	49	46	48	59	52	0.862883	499/503	RandomExcursionsVariant
42	52	51	56	48	54	54	50	55	41	0.839507	500/503	RandomExcursionsVariant
44	52	54	51	64	46	39	61	47	45	0.282626	498/503	RandomExcursionsVariant
44	60	53	49	53	56	48	51	38	51	0.655854	499/503	RandomExcursionsVariant
51	46	55	50	55	50	47	57	43	49	0.941144	499/503	RandomExcursionsVariant
45	44	43	60	49	66	44	52	45	55	0.266235	497/503	RandomExcursionsVariant
46	45	50	50	58	49	59	46	58	42	0.676615	499/503	RandomExcursionsVariant
47	37	65	52	46	54	56	46	46	54	0.314544	499/503	RandomExcursionsVariant
45	55	53	44	51	50	45	58	58	44	0.769527	500/503	RandomExcursionsVariant
50	54	57	42	47	54	48	46	53	52	0.927677	500/503	RandomExcursionsVariant

51	63	51	45	48	50	55	50	60	30	0.105618	499/503	RandomExcursionsVariant
58	47	55	56	39	51	48	57	43	49	0.618385	497/503	RandomExcursionsVariant
56	51	43	58	45	58	49	36	58	49	0.348869	499/503	RandomExcursionsVariant
49	54	53	50	52	50	50	48	43	54	0.991780	500/503	RandomExcursionsVariant
75	79	90	81	87	102	79	73	83	86	0.569704	828/835	Serial
72	90	76	85	88	70	92	83	94	85	0.584587	830/835	Serial
85	90	67	77	100	83	90	64	93	86	0.126235	827/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 491 for a sample size = 503 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(PRNG_Trap)_freq

FILE = nist_11_prng_trap_100mb.bin

ALPHA = 0.0100

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(MAC_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_12_mac_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
----	----	----	----	----	----	----	----	----	-----	---------	------------	------------------

85	76	94	63	84	88	87	83	87	88	0.542667	825/835	Frequency
76	92	84	79	87	79	85	88	85	80	0.976185	825/835	BlockFrequency
85	79	84	77	77	85	85	94	84	85	0.973884	825/835	CumulativeSums
84	86	74	78	94	84	79	82	92	82	0.907403	823/835	CumulativeSums
80	82	82	79	89	92	70	81	90	90	0.834308	825/835	Runs
94	84	83	92	90	91	83	79	79	60	0.306614	823/835	LongestRun
98	85	92	80	83	75	89	79	76	78	0.726584	819/835	Rank
70	88	83	81	79	90	84	91	89	80	0.876005	826/835	FFT

79	70	96	73	79	97	81	91	86	83	0.441735	831/835	NonOverlappingTemplate
82	94	96	76	89	76	78	92	77	75	0.574656	818/835	NonOverlappingTemplate
90	86	83	83	89	93	77	85	76	73	0.866540	827/835	NonOverlappingTemplate
93	93	92	83	80	84	82	80	72	76	0.771982	826/835	NonOverlappingTemplate
94	82	75	86	91	88	82	78	86	73	0.830087	826/835	NonOverlappingTemplate
94	68	101	79	70	99	71	91	84	78	0.062726	830/835	NonOverlappingTemplate
79	80	75	94	91	77	93	92	79	75	0.649662	825/835	NonOverlappingTemplate
82	68	80	77	85	83	91	87	95	87	0.719257	828/835	NonOverlappingTemplate
79	84	85	88	83	96	86	92	85	57	0.220884	828/835	NonOverlappingTemplate
95	77	91	81	80	97	79	77	91	67	0.355384	826/835	NonOverlappingTemplate
83	83	84	67	100	85	72	91	89	81	0.406735	828/835	NonOverlappingTemplate
101	83	74	82	62	85	78	91	88	91	0.191812	830/835	NonOverlappingTemplate
80	74	87	85	94	95	86	87	77	70	0.607042	831/835	NonOverlappingTemplate
83	86	83	82	80	85	82	73	90	91	0.969752	822/835	NonOverlappingTemplate
83	78	89	86	82	91	92	74	79	81	0.922899	830/835	NonOverlappingTemplate
93	76	66	76	84	76	102	81	84	97	0.152003	822/835	NonOverlappingTemplate
85	75	90	82	83	91	91	71	82	85	0.854787	829/835	NonOverlappingTemplate
89	82	93	81	72	81	89	86	83	79	0.915332	826/835	NonOverlappingTemplate
88	89	81	89	82	80	80	79	80	87	0.992385	827/835	NonOverlappingTemplate
84	75	79	77	83	82	92	91	82	90	0.925823	830/835	NonOverlappingTemplate
95	84	84	62	100	79	81	65	92	93	0.050636	826/835	NonOverlappingTemplate
81	84	93	80	74	67	82	107	73	94	0.089621	826/835	NonOverlappingTemplate
82	85	71	87	109	79	98	84	71	69	0.046499	826/835	NonOverlappingTemplate
83	97	78	95	87	88	88	75	68	76	0.413175	828/835	NonOverlappingTemplate
82	89	95	71	76	84	89	75	84	90	0.706971	832/835	NonOverlappingTemplate
81	86	85	89	84	88	95	74	76	77	0.860716	826/835	NonOverlappingTemplate
78	73	75	77	92	81	97	76	102	84	0.272420	826/835	NonOverlappingTemplate
83	77	90	88	90	79	70	91	83	84	0.840564	827/835	NonOverlappingTemplate
80	83	89	87	90	83	67	95	83	78	0.694605	823/835	NonOverlappingTemplate
72	75	72	86	68	92	85	91	100	94	0.152003	830/835	NonOverlappingTemplate
77	99	62	79	88	87	91	89	89	74	0.205941	825/835	NonOverlappingTemplate
85	69	88	93	63	92	94	61	92	98	0.014116	825/835	NonOverlappingTemplate
78	83	68	82	90	95	85	62	81	111	0.016690	826/835	NonOverlappingTemplate
72	96	95	73	75	78	102	73	92	79	0.114412	828/835	NonOverlappingTemplate
91	91	97	79	77	79	88	67	80	86	0.501725	823/835	NonOverlappingTemplate
81	95	73	84	86	104	75	77	83	77	0.345630	831/835	NonOverlappingTemplate
84	84	88	83	72	99	82	92	87	64	0.319267	822/835	NonOverlappingTemplate
69	76	80	85	85	78	99	102	74	87	0.209934	826/835	NonOverlappingTemplate
78	81	83	79	93	94	84	94	77	72	0.682176	830/835	NonOverlappingTemplate
77	75	85	77	83	92	86	85	83	92	0.924369	822/835	NonOverlappingTemplate
80	104	76	86	90	68	82	71	89	89	0.211279	822/835	NonOverlappingTemplate
82	74	69	81	85	83	101	95	93	72	0.227952	827/835	NonOverlappingTemplate
86	95	84	85	88	85	67	82	87	76	0.726584	830/835	NonOverlappingTemplate
72	92	81	87	69	77	80	94	93	90	0.452988	824/835	NonOverlappingTemplate
79	79	83	82	87	77	76	91	95	86	0.895710	828/835	NonOverlappingTemplate
90	85	72	90	91	86	85	71	90	75	0.667196	829/835	NonOverlappingTemplate
80	88	82	90	86	98	67	65	103	76	0.062252	829/835	NonOverlappingTemplate
74	83	91	95	82	87	78	92	82	71	0.667196	826/835	NonOverlappingTemplate
86	87	94	81	85	76	68	81	92	85	0.716807	827/835	NonOverlappingTemplate
104	75	79	75	77	84	77	94	93	77	0.274061	826/835	NonOverlappingTemplate
78	94	87	103	73	86	77	95	65	77	0.102820	828/835	NonOverlappingTemplate
74	77	73	83	89	97	77	82	98	85	0.473596	829/835	NonOverlappingTemplate

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71	88	75	84	105	74	96	90	67	85	0.080876	827/835	NonOverlappingTemplate
97	86	83	77	81	85	78	85	93	70	0.679683	827/835	NonOverlappingTemplate
82	81	68	82	79	97	84	82	86	94	0.644646	826/835	NonOverlappingTemplate
67	96	74	76	84	102	91	84	79	82	0.211279	830/835	NonOverlappingTemplate
78	87	72	87	82	82	79	89	93	86	0.904132	821/835	NonOverlappingTemplate
91	75	101	83	88	81	92	81	62	81	0.203312	823/835	NonOverlappingTemplate
93	99	74	81	81	75	83	96	73	80	0.394028	824/835	NonOverlappingTemplate
89	88	82	70	85	82	102	67	82	88	0.304835	830/835	NonOverlappingTemplate
83	79	94	89	88	74	83	87	80	78	0.913775	828/835	NonOverlappingTemplate
81	94	84	83	88	65	88	83	81	88	0.702033	828/835	NonOverlappingTemplate
91	73	79	85	98	96	90	76	82	65	0.209934	823/835	NonOverlappingTemplate
90	76	81	67	67	94	83	91	94	92	0.209934	825/835	NonOverlappingTemplate
72	96	92	85	79	72	86	87	70	96	0.308400	828/835	NonOverlappingTemplate
82	78	62	80	96	93	89	76	89	90	0.274061	829/835	NonOverlappingTemplate
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88	81	89	89	77	91	76	100	69	75	0.381559	822/835	NonOverlappingTemplate
78	92	87	89	86	90	65	81	90	77	0.577135	829/835	NonOverlappingTemplate
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78	80	93	80	98	83	80	82	73	88	0.733874	825/835	NonOverlappingTemplate
95	92	84	72	76	98	83	84	77	74	0.446219	827/835	NonOverlappingTemplate
69	90	96	75	88	86	89	95	81	66	0.220884	826/835	NonOverlappingTemplate
83	91	91	62	74	85	77	87	100	85	0.211279	827/835	NonOverlappingTemplate
78	91	71	82	116	69	81	76	93	78	0.015352	828/835	NonOverlappingTemplate
78	77	89	81	82	74	84	83	95	92	0.840564	832/835	NonOverlappingTemplate
88	75	78	83	88	73	94	87	90	79	0.806191	827/835	NonOverlappingTemplate
71	72	79	83	88	90	86	105	80	81	0.321103	832/835	NonOverlappingTemplate
86	75	84	86	79	75	81	83	91	95	0.874137	823/835	NonOverlappingTemplate
76	98	105	88	71	79	89	81	78	70	0.116040	828/835	NonOverlappingTemplate
94	97	77	83	88	77	83	74	71	91	0.487573	823/835	NonOverlappingTemplate
70	75	86	80	88	89	87	91	83	86	0.848757	829/835	NonOverlappingTemplate
78	79	71	84	81	95	102	84	94	67	0.165905	829/835	NonOverlappingTemplate
74	79	89	95	98	90	62	94	85	69	0.070753	825/835	NonOverlappingTemplate
93	74	98	84	95	74	80	60	80	97	0.055958	824/835	NonOverlappingTemplate
73	87	100	93	85	82	77	75	71	92	0.345630	828/835	NonOverlappingTemplate
87	72	85	84	89	96	97	75	83	67	0.319267	825/835	NonOverlappingTemplate
93	95	83	82	77	89	83	79	78	76	0.842628	828/835	NonOverlappingTemplate
77	75	87	91	82	80	83	62	102	96	0.122754	828/835	NonOverlappingTemplate
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77	74	86	93	80	79	80	84	81	101	0.627085	828/835	NonOverlappingTemplate
84	74	77	96	89	95	73	78	62	107	0.022107	822/835	NonOverlappingTemplate
79	86	75	83	76	97	84	96	74	85	0.627085	829/835	NonOverlappingTemplate
72	71	95	75	83	76	87	89	97	90	0.361321	826/835	NonOverlappingTemplate
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89	91	73	75	80	103	91	97	70	66	0.052626	830/835	NonOverlappingTemplate
71	81	86	82	80	86	78	107	84	80	0.394028	832/835	NonOverlappingTemplate
83	86	87	73	90	98	82	84	68	84	0.579617	825/835	NonOverlappingTemplate
76	80	89	96	70	96	72	85	83	88	0.432838	826/835	NonOverlappingTemplate

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72	84	75	79	80	80	95	84	75	111	0.102085	834/835	NonOverlappingTemplate
84	89	87	81	76	91	90	70	83	84	0.860716	828/835	NonOverlappingTemplate
82	78	71	89	79	77	92	72	82	113	0.059029	827/835	NonOverlappingTemplate
87	84	95	100	73	78	97	84	66	71	0.105053	827/835	NonOverlappingTemplate
98	85	83	93	91	78	70	79	76	82	0.547555	824/835	NonOverlappingTemplate
76	75	97	83	76	83	79	77	82	107	0.219492	832/835	NonOverlappingTemplate
91	76	77	77	103	104	69	75	76	87	0.061316	826/835	NonOverlappingTemplate
90	82	96	81	92	82	74	76	74	88	0.687154	830/835	NonOverlappingTemplate
92	80	90	96	90	65	73	89	82	78	0.337955	829/835	NonOverlappingTemplate
85	94	107	75	91	67	83	87	68	78	0.061316	829/835	NonOverlappingTemplate
80	89	86	69	92	100	100	65	79	75	0.070753	826/835	NonOverlappingTemplate
80	97	79	84	88	86	77	76	86	82	0.895710	829/835	NonOverlappingTemplate
101	80	72	88	80	91	88	77	77	81	0.547555	822/835	NonOverlappingTemplate
92	90	81	89	82	86	91	69	83	72	0.662191	825/835	NonOverlappingTemplate
101	83	81	78	76	80	81	74	104	77	0.229386	826/835	NonOverlappingTemplate
70	90	84	76	88	86	82	93	76	90	0.736295	830/835	NonOverlappingTemplate
66	96	81	84	93	79	82	83	80	91	0.547555	830/835	NonOverlappingTemplate
68	76	92	73	81	83	89	92	83	98	0.379504	831/835	NonOverlappingTemplate
83	90	82	83	79	92	72	79	89	86	0.913775	823/835	NonOverlappingTemplate
92	72	85	81	84	85	86	78	88	84	0.950571	825/835	NonOverlappingTemplate
75	90	95	78	76	71	85	97	74	94	0.306614	828/835	NonOverlappingTemplate
80	99	84	87	78	76	91	101	73	66	0.135308	822/835	NonOverlappingTemplate
77	66	87	94	84	82	79	91	91	84	0.602041	825/835	NonOverlappingTemplate
76	73	79	81	84	105	107	74	69	87	0.031330	828/835	NonOverlappingTemplate
98	75	86	62	88	79	86	87	81	93	0.279027	825/835	NonOverlappingTemplate
84	82	92	93	86	66	88	89	73	82	0.559831	827/835	NonOverlappingTemplate
78	96	90	84	78	87	81	75	89	77	0.823682	824/835	NonOverlappingTemplate
75	79	90	88	87	77	88	79	83	89	0.945822	826/835	NonOverlappingTemplate
92	86	76	80	69	78	83	87	98	86	0.589565	826/835	NonOverlappingTemplate
70	78	96	84	80	81	82	89	90	85	0.776638	829/835	NonOverlappingTemplate
76	89	94	77	73	88	86	81	87	84	0.852789	823/835	NonOverlappingTemplate
85	95	92	80	80	76	87	71	82	87	0.769644	830/835	NonOverlappingTemplate
82	77	82	88	76	72	106	87	76	89	0.319267	826/835	NonOverlappingTemplate
82	96	81	71	92	79	90	81	74	89	0.632102	826/835	NonOverlappingTemplate
86	61	78	84	89	92	65	88	101	91	0.056387	828/835	NonOverlappingTemplate
90	88	81	79	103	74	83	73	83	81	0.516041	827/835	NonOverlappingTemplate
72	94	72	83	95	84	85	78	88	84	0.659687	826/835	NonOverlappingTemplate
94	82	73	82	77	85	83	90	93	76	0.783571	825/835	NonOverlappingTemplate
82	69	92	87	82	81	77	97	86	82	0.687154	827/835	NonOverlappingTemplate
85	76	73	89	86	73	92	91	92	78	0.677189	828/835	NonOverlappingTemplate
88	89	97	80	75	65	93	103	82	63	0.027543	823/835	NonOverlappingTemplate
81	87	69	87	80	79	71	92	95	94	0.437274	822/835	NonOverlappingTemplate
92	93	80	80	86	74	73	90	95	72	0.487573	824/835	OverlappingTemplate
99	73	83	81	88	73	83	81	76	98	0.419674	827/835	Universal
81	70	94	85	77	92	79	99	81	77	0.459808	827/835	ApproximateEntropy
63	59	43	47	55	44	51	62	63	44	0.227493	526/531	RandomExcursions
50	55	62	54	49	52	61	54	45	49	0.847263	524/531	RandomExcursions
55	44	44	57	46	60	69	52	48	56	0.291548	521/531	RandomExcursions
65	53	39	49	49	49	59	52	52	64	0.325148	525/531	RandomExcursions
52	59	49	55	61	50	61	49	49	46	0.817560	527/531	RandomExcursions

60	58	50	40	54	54	56	53	62	44	0.532246	522/531	RandomExcursions
60	55	54	59	54	55	45	49	58	42	0.734240	522/531	RandomExcursions
58	47	58	53	51	41	47	64	58	54	0.547509	522/531	RandomExcursions
69	50	55	56	50	53	47	66	44	41	0.140122	523/531	RandomExcursionsVariant
68	57	52	53	48	51	61	48	47	46	0.494761	525/531	RandomExcursionsVariant
69	59	53	60	50	57	46	47	46	44	0.278304	524/531	RandomExcursionsVariant
69	56	64	56	47	52	41	65	50	31	0.006456	524/531	RandomExcursionsVariant
61	61	61	62	44	41	52	65	41	43	0.053017	523/531	RandomExcursionsVariant
58	64	59	46	44	50	54	45	60	51	0.505896	524/531	RandomExcursionsVariant
58	59	56	44	43	55	52	55	58	51	0.793184	524/531	RandomExcursionsVariant
57	48	51	50	58	49	47	61	54	56	0.919888	523/531	RandomExcursionsVariant
56	51	55	60	63	41	51	51	52	51	0.730441	520/531	RandomExcursionsVariant
64	63	56	55	42	51	49	45	53	53	0.505896	524/531	RandomExcursionsVariant
63	51	51	62	45	48	49	69	43	50	0.189935	524/531	RandomExcursionsVariant
50	59	53	50	54	61	52	56	47	49	0.945545	526/531	RandomExcursionsVariant
53	53	53	57	44	58	56	46	54	57	0.929034	529/531	RandomExcursionsVariant
51	46	57	58	52	54	43	47	57	66	0.547509	529/531	RandomExcursionsVariant
43	56	52	58	51	51	58	54	53	55	0.952895	528/531	RandomExcursionsVariant
55	50	52	49	55	61	58	59	60	32	0.199832	528/531	RandomExcursionsVariant
57	58	53	49	55	52	51	61	46	49	0.931228	526/531	RandomExcursionsVariant
57	63	49	55	55	38	43	58	54	59	0.355087	524/531	RandomExcursionsVariant
87	82	84	105	68	86	94	72	81	76	0.190567	830/835	Serial
92	95	87	85	84	87	74	77	78	76	0.792713	825/835	Serial
81	89	86	79	81	100	93	68	83	75	0.437274	821/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 518 for a sample size = 531 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(MAC_Trap)_freq

FILE = nist_12_mac_trap_100mb.bin

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(KEX_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_15_kex_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
77	117	77	71	89	80	78	76	76	94	0.017838	828/835	Frequency
88	92	74	69	82	78	95	90	77	90	0.506480	830/835	BlockFrequency
86	76	104	90	78	79	80	84	82	76	0.552456	829/835	CumulativeSums
80	95	91	81	63	79	92	85	88	81	0.432838	829/835	CumulativeSums
80	85	80	90	97	92	78	78	81	74	0.757861	830/835	Runs
79	79	87	79	75	83	102	95	82	74	0.473596	829/835	LongestRun
86	69	88	75	94	87	90	91	78	77	0.607042	827/835	Rank
88	81	94	80	96	92	85	72	78	69	0.428425	824/835	FFT
86	73	75	85	97	98	79	85	83	74	0.492271	826/835	NonOverlappingTemplate
85	97	74	81	84	74	86	89	78	87	0.792713	823/835	NonOverlappingTemplate
77	92	83	86	77	81	97	84	75	83	0.821527	830/835	NonOverlappingTemplate
92	72	80	88	87	92	87	82	79	76	0.834308	825/835	NonOverlappingTemplate
84	104	74	96	73	80	72	83	89	80	0.233731	826/835	NonOverlappingTemplate
83	76	72	76	86	84	92	97	83	86	0.719257	824/835	NonOverlappingTemplate
75	83	77	74	81	88	95	90	83	89	0.808408	828/835	NonOverlappingTemplate
93	81	72	78	74	95	86	82	90	84	0.694605	827/835	NonOverlappingTemplate
75	82	84	90	96	73	84	81	87	83	0.844682	832/835	NonOverlappingTemplate
102	73	79	82	83	88	82	90	65	91	0.253292	825/835	NonOverlappingTemplate
90	88	91	80	91	70	80	80	75	90	0.724146	828/835	NonOverlappingTemplate
86	90	73	103	80	83	87	75	84	74	0.457529	831/835	NonOverlappingTemplate
86	83	83	89	76	85	83	78	81	91	0.985761	828/835	NonOverlappingTemplate
78	77	75	80	95	97	95	71	83	84	0.419674	828/835	NonOverlappingTemplate
75	85	86	81	97	90	88	78	82	73	0.764949	826/835	NonOverlappingTemplate
84	78	96	80	89	91	79	74	83	81	0.844682	824/835	NonOverlappingTemplate
91	93	82	84	77	85	76	89	82	76	0.904132	828/835	NonOverlappingTemplate
75	71	84	96	89	86	91	99	83	61	0.097068	827/835	NonOverlappingTemplate
72	80	74	73	96	94	108	84	71	83	0.056820	829/835	NonOverlappingTemplate
82	88	79	69	84	90	94	69	96	84	0.406735	822/835	NonOverlappingTemplate
99	79	83	74	77	82	84	85	95	77	0.644646	825/835	NonOverlappingTemplate
64	91	84	80	91	87	84	88	94	72	0.398237	829/835	NonOverlappingTemplate
94	71	79	90	83	94	91	76	89	68	0.355384	823/835	NonOverlappingTemplate
88	79	79	91	89	82	72	68	99	88	0.396129	826/835	NonOverlappingTemplate
81	89	80	80	98	94	65	70	89	89	0.232276	825/835	NonOverlappingTemplate
71	80	100	90	84	81	75	80	86	88	0.609544	827/835	NonOverlappingTemplate
80	92	92	77	83	75	90	76	82	88	0.854787	829/835	NonOverlappingTemplate
79	87	88	91	96	85	63	83	87	76	0.424037	829/835	NonOverlappingTemplate
80	96	77	63	99	75	99	69	98	79	0.020531	829/835	NonOverlappingTemplate
97	70	78	88	86	81	86	73	89	87	0.627085	824/835	NonOverlappingTemplate
91	93	72	77	80	88	88	92	78	76	0.694605	826/835	NonOverlappingTemplate
107	83	73	77	82	73	90	76	85	89	0.245627	825/835	NonOverlappingTemplate
98	93	82	73	81	86	85	97	69	71	0.225104	825/835	NonOverlappingTemplate
87	89	70	77	95	83	81	97	66	90	0.254847	824/835	NonOverlappingTemplate

87	78	91	83	91	76	69	89	91	80	0.709435	826/835	NonOverlappingTemplate
76	98	74	74	83	90	79	95	79	87	0.518442	829/835	NonOverlappingTemplate
77	93	96	75	81	67	92	97	80	77	0.245627	829/835	NonOverlappingTemplate
73	88	89	92	78	80	87	84	79	85	0.925823	825/835	NonOverlappingTemplate
90	61	90	77	101	73	101	86	76	80	0.044723	825/835	NonOverlappingTemplate
73	92	90	85	93	71	77	76	92	86	0.547555	832/835	NonOverlappingTemplate
84	78	78	72	100	90	70	75	100	88	0.174971	828/835	NonOverlappingTemplate
77	99	87	91	96	90	67	80	69	79	0.169258	827/835	NonOverlappingTemplate
86	72	76	76	96	68	93	88	80	100	0.182035	832/835	NonOverlappingTemplate
92	81	73	96	85	83	84	74	79	88	0.760230	827/835	NonOverlappingTemplate
88	82	70	92	80	84	82	84	91	82	0.893985	827/835	NonOverlappingTemplate
84	77	80	75	103	88	89	66	92	81	0.250205	828/835	NonOverlappingTemplate
83	71	82	90	85	86	67	98	90	83	0.448469	827/835	NonOverlappingTemplate
86	79	83	80	80	91	82	78	95	81	0.947032	828/835	NonOverlappingTemplate
78	84	95	72	88	79	88	82	95	74	0.634611	830/835	NonOverlappingTemplate
92	76	75	78	89	91	84	78	95	77	0.706971	819/835	NonOverlappingTemplate
77	73	101	87	85	78	72	80	89	93	0.411022	823/835	NonOverlappingTemplate
110	72	63	87	95	67	80	84	95	82	0.009072	826/835	NonOverlappingTemplate
93	82	69	97	97	84	81	88	69	75	0.225104	828/835	NonOverlappingTemplate
94	79	75	71	84	81	92	104	76	79	0.256408	822/835	NonOverlappingTemplate
78	77	87	90	78	77	85	83	82	98	0.832203	832/835	NonOverlappingTemplate
71	76	91	95	84	105	75	91	85	62	0.040393	830/835	NonOverlappingTemplate
79	87	91	74	75	73	85	91	90	90	0.729019	825/835	NonOverlappingTemplate
79	82	89	81	68	82	84	90	96	84	0.733874	831/835	NonOverlappingTemplate
102	77	74	86	75	83	95	86	78	79	0.439501	820/835	NonOverlappingTemplate
89	82	86	66	104	84	83	80	81	80	0.381559	823/835	NonOverlappingTemplate
80	96	92	83	83	91	75	77	75	83	0.753106	828/835	NonOverlappingTemplate
81	82	79	103	76	88	90	85	70	81	0.466678	828/835	NonOverlappingTemplate
94	87	85	74	80	73	76	89	80	97	0.587075	828/835	NonOverlappingTemplate
78	89	82	66	80	78	87	98	88	89	0.506480	824/835	NonOverlappingTemplate
73	78	71	83	82	109	89	71	95	84	0.082683	827/835	NonOverlappingTemplate
88	80	75	77	84	92	76	89	102	72	0.398237	825/835	NonOverlappingTemplate
79	91	94	71	88	87	84	87	68	86	0.567232	829/835	NonOverlappingTemplate
79	85	86	86	87	91	83	82	83	73	0.976922	830/835	NonOverlappingTemplate
82	77	81	84	72	96	87	86	83	87	0.876005	825/835	NonOverlappingTemplate
105	74	84	60	83	81	71	89	89	99	0.025815	823/835	NonOverlappingTemplate
86	83	95	87	75	79	87	77	72	94	0.684666	825/835	NonOverlappingTemplate
74	83	83	78	79	87	79	91	87	94	0.892246	827/835	NonOverlappingTemplate
74	82	88	96	80	73	79	85	88	90	0.762593	825/835	NonOverlappingTemplate
78	98	92	90	84	74	63	82	85	89	0.284058	822/835	NonOverlappingTemplate
86	73	75	86	96	98	78	85	83	75	0.528087	826/835	NonOverlappingTemplate
71	76	85	90	82	86	103	80	87	75	0.439501	825/835	NonOverlappingTemplate
90	82	73	77	93	81	90	80	101	68	0.289154	827/835	NonOverlappingTemplate
94	77	85	89	104	91	71	65	87	72	0.072357	825/835	NonOverlappingTemplate
72	77	83	83	78	79	83	94	98	88	0.652169	827/835	NonOverlappingTemplate
75	75	76	72	105	83	88	109	71	81	0.020195	825/835	NonOverlappingTemplate
89	72	85	88	88	77	84	98	77	77	0.682176	826/835	NonOverlappingTemplate
93	92	101	78	73	80	75	77	83	83	0.446219	828/835	NonOverlappingTemplate
82	70	75	82	84	84	88	79	84	107	0.326656	823/835	NonOverlappingTemplate
89	78	75	82	85	82	88	88	82	86	0.985761	824/835	NonOverlappingTemplate
86	83	80	81	97	72	75	88	75	98	0.471285	826/835	NonOverlappingTemplate
89	78	87	87	67	75	89	97	85	81	0.547555	829/835	NonOverlappingTemplate

80	87	90	81	78	95	76	80	79	89	0.890494	827/835	NonOverlappingTemplate
70	90	72	79	84	77	87	91	98	87	0.475913	830/835	NonOverlappingTemplate
88	91	77	84	84	79	85	87	84	76	0.979048	829/835	NonOverlappingTemplate
75	90	78	79	83	93	87	88	85	77	0.909017	825/835	NonOverlappingTemplate
88	83	90	83	86	88	86	68	79	84	0.888728	820/835	NonOverlappingTemplate
62	89	80	85	95	80	81	90	87	86	0.466678	823/835	NonOverlappingTemplate
77	77	80	81	91	74	90	85	104	76	0.408875	830/835	NonOverlappingTemplate
92	81	80	75	89	91	85	82	80	80	0.947032	829/835	NonOverlappingTemplate
95	85	92	82	76	82	76	73	90	84	0.762593	832/835	NonOverlappingTemplate
92	96	72	69	54	105	93	78	84	92	0.002667	823/835	NonOverlappingTemplate
96	87	85	75	76	84	86	76	86	84	0.877861	824/835	NonOverlappingTemplate
82	78	82	75	80	97	88	88	88	77	0.842628	822/835	NonOverlappingTemplate
89	84	79	82	85	80	78	80	99	79	0.876005	827/835	NonOverlappingTemplate
78	79	78	71	82	100	79	99	91	78	0.321103	830/835	NonOverlappingTemplate
73	86	77	82	86	84	79	82	88	98	0.825826	830/835	NonOverlappingTemplate
87	90	67	87	77	77	84	92	94	80	0.587075	833/835	NonOverlappingTemplate
84	77	80	75	89	84	78	81	84	103	0.642137	829/835	NonOverlappingTemplate
89	78	66	86	88	69	84	101	73	101	0.066630	829/835	NonOverlappingTemplate
84	70	95	85	85	84	80	83	93	76	0.760230	824/835	NonOverlappingTemplate
84	94	80	99	89	86	78	68	83	74	0.419674	825/835	NonOverlappingTemplate
77	82	107	73	84	71	84	87	88	82	0.285749	831/835	NonOverlappingTemplate
88	80	87	69	100	85	85	72	88	81	0.499355	827/835	NonOverlappingTemplate
87	84	86	80	89	96	74	77	81	81	0.883353	825/835	NonOverlappingTemplate
73	88	74	97	71	82	88	93	79	90	0.448469	829/835	NonOverlappingTemplate
72	81	76	103	92	68	100	73	83	87	0.078521	826/835	NonOverlappingTemplate
94	74	85	88	79	84	76	77	96	82	0.733874	826/835	NonOverlappingTemplate
92	90	70	69	95	82	76	86	85	90	0.432838	829/835	NonOverlappingTemplate
98	73	76	93	83	85	77	84	77	89	0.629593	829/835	NonOverlappingTemplate
89	93	74	80	101	89	82	70	87	70	0.253292	824/835	NonOverlappingTemplate
76	73	88	92	98	77	80	88	92	71	0.406735	828/835	NonOverlappingTemplate
73	84	62	95	87	94	74	94	83	89	0.172667	826/835	NonOverlappingTemplate
81	75	84	77	89	84	95	86	84	80	0.931490	828/835	NonOverlappingTemplate
95	91	83	80	100	82	65	80	88	71	0.204623	823/835	NonOverlappingTemplate
91	72	85	77	83	91	85	87	82	82	0.927262	825/835	NonOverlappingTemplate
78	78	79	86	92	78	82	84	94	84	0.931490	833/835	NonOverlappingTemplate
77	83	106	70	88	88	91	86	76	70	0.164799	818/835	NonOverlappingTemplate
94	81	76	78	89	82	74	91	70	100	0.341778	828/835	NonOverlappingTemplate
102	73	72	92	79	75	89	80	89	84	0.355384	825/835	NonOverlappingTemplate
76	100	81	83	64	92	88	99	74	78	0.118520	826/835	NonOverlappingTemplate
68	87	92	86	96	88	80	66	84	88	0.332273	828/835	NonOverlappingTemplate
89	81	79	76	66	88	76	91	100	89	0.324798	828/835	NonOverlappingTemplate
81	77	82	76	100	91	85	73	79	91	0.579617	826/835	NonOverlappingTemplate
80	80	92	78	87	83	85	74	77	99	0.716807	827/835	NonOverlappingTemplate
95	89	95	85	82	75	82	76	87	69	0.545110	826/835	NonOverlappingTemplate
94	87	79	86	93	78	84	73	85	76	0.806191	826/835	NonOverlappingTemplate
81	74	93	87	91	80	85	72	78	94	0.682176	828/835	NonOverlappingTemplate
78	79	90	92	76	73	88	99	80	80	0.589565	827/835	NonOverlappingTemplate
78	70	76	92	92	91	77	83	86	90	0.659687	828/835	NonOverlappingTemplate
87	83	82	88	73	82	86	86	90	78	0.970608	822/835	NonOverlappingTemplate
89	77	83	78	93	91	80	84	85	75	0.905774	827/835	NonOverlappingTemplate
81	98	82	79	67	76	69	97	97	89	0.116862	828/835	NonOverlappingTemplate
71	89	91	78	85	94	79	86	83	79	0.812817	827/835	NonOverlappingTemplate

72	79	91	97	67	104	85	81	76	83	0.127118	825/835	NonOverlappingTemplate
78	80	70	93	90	75	80	92	83	94	0.579617	828/835	NonOverlappingTemplate
83	86	61	101	76	85	85	81	101	76	0.088969	827/835	NonOverlappingTemplate
74	97	88	90	85	83	77	80	72	89	0.667196	828/835	NonOverlappingTemplate
78	78	86	89	78	78	75	113	89	71	0.077366	826/835	NonOverlappingTemplate
89	86	68	83	91	87	70	85	97	79	0.450726	827/835	NonOverlappingTemplate
85	83	73	82	77	87	86	89	82	91	0.955072	829/835	NonOverlappingTemplate
91	71	83	93	94	77	80	82	84	80	0.755486	826/835	NonOverlappingTemplate
84	91	86	80	92	73	80	88	78	83	0.918403	824/835	NonOverlappingTemplate
78	101	88	91	84	73	64	81	86	89	0.247146	822/835	NonOverlappingTemplate
107	74	80	83	89	85	81	97	66	73	0.075663	822/835	OverlappingTemplate
107	77	77	92	96	77	68	98	69	74	0.017838	825/835	Universal
64	89	89	100	90	78	83	87	80	75	0.299543	829/835	ApproximateEntropy
61	50	47	52	44	48	55	43	43	55	0.668956	495/498	RandomExcursions
49	59	46	46	41	52	54	50	51	50	0.873159	492/498	RandomExcursions
57	50	60	41	57	45	40	55	45	48	0.395120	492/498	RandomExcursions
51	46	46	53	45	42	57	59	56	43	0.618003	492/498	RandomExcursions
40	36	42	48	61	48	51	53	62	57	0.113877	494/498	RandomExcursions
50	59	51	41	55	42	55	50	49	46	0.727603	495/498	RandomExcursions
47	52	57	50	53	43	42	53	56	45	0.806848	494/498	RandomExcursions
66	40	46	50	48	56	46	53	50	43	0.347191	488/498	RandomExcursions
42	42	49	51	66	47	48	54	58	41	0.239820	497/498	RandomExcursionsVariant
41	38	51	50	60	46	49	58	48	57	0.391570	498/498	RandomExcursionsVariant
42	47	42	46	56	53	59	47	54	52	0.698474	498/498	RandomExcursionsVariant
50	39	45	37	62	55	58	51	44	57	0.159855	495/498	RandomExcursionsVariant
48	43	47	53	47	49	52	49	52	58	0.952841	495/498	RandomExcursionsVariant
50	41	64	43	54	52	45	48	38	63	0.116635	494/498	RandomExcursionsVariant
61	48	45	56	48	47	56	56	38	43	0.384527	490/498	RandomExcursionsVariant
51	48	55	55	51	45	56	41	58	38	0.493593	492/498	RandomExcursionsVariant
51	50	47	57	55	49	46	39	57	47	0.756141	489/498	RandomExcursionsVariant
45	47	55	56	51	49	45	58	43	49	0.839612	497/498	RandomExcursionsVariant
48	50	43	56	52	56	60	46	54	33	0.252676	494/498	RandomExcursionsVariant
56	52	46	50	46	57	46	48	45	52	0.936169	492/498	RandomExcursionsVariant
50	58	49	53	50	49	59	41	45	44	0.719332	494/498	RandomExcursionsVariant
44	61	50	55	45	49	48	47	48	51	0.856795	494/498	RandomExcursionsVariant
43	55	46	54	45	52	44	58	53	48	0.818012	493/498	RandomExcursionsVariant
43	46	52	52	47	53	45	54	50	56	0.938408	495/498	RandomExcursionsVariant
44	51	53	41	51	55	53	44	58	48	0.783876	495/498	RandomExcursionsVariant
38	57	51	45	54	39	61	52	50	51	0.353800	495/498	RandomExcursionsVariant
61	83	88	87	65	90	86	92	93	90	0.133450	829/835	Serial
74	69	95	94	87	89	72	73	96	86	0.215355	830/835	Serial
108	74	87	97	81	78	61	100	79	70	0.006305	827/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 486 for a sample size = 498 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(KEX_Trap)_freq

FILE = nist_15_kex_trap_100mb.bin

ALPHA = 0.0100

BITSTREAD = 1000000 0s = 500087 1s = 499913
BITSTREAD = 1000000 0s = 499816 1s = 500184
BITSTREAD = 1000000 0s = 498243 1s = 501757
BITSTREAD = 1000000 0s = 500081 1s = 499919
BITSTREAD = 1000000 0s = 500176 1s = 499824
BITSTREAD = 1000000 0s = 498969 1s = 501031
BITSTREAD = 1000000 0s = 498819 1s = 501181
BITSTREAD = 1000000 0s = 500008 1s = 499992
BITSTREAD = 1000000 0s = 499721 1s = 500279
BITSTREAD = 1000000 0s = 499636 1s = 500364
BITSTREAD = 1000000 0s = 499484 1s = 500516
BITSTREAD = 1000000 0s = 499240 1s = 500760
BITSTREAD = 1000000 0s = 499983 1s = 500017
BITSTREAD = 1000000 0s = 500990 1s = 499010
BITSTREAD = 1000000 0s = 499946 1s = 500054
BITSTREAD = 1000000 0s = 500580 1s = 499420
BITSTREAD = 1000000 0s = 500398 1s = 499602
BITSTREAD = 1000000 0s = 500298 1s = 499702
BITSTREAD = 1000000 0s = 499493 1s = 500507
BITSTREAD = 1000000 0s = 499740 1s = 500260
BITSTREAD = 1000000 0s = 500539 1s = 499461
BITSTREAD = 1000000 0s = 500537 1s = 499463
BITSTREAD = 1000000 0s = 499289 1s = 500711
BITSTREAD = 1000000 0s = 500305 1s = 499695
BITSTREAD = 1000000 0s = 499663 1s = 500337
BITSTREAD = 1000000 0s = 499723 1s = 500277
BITSTREAD = 1000000 0s = 500784 1s = 499216
BITSTREAD = 1000000 0s = 499930 1s = 500070
BITSTREAD = 1000000 0s = 499776 1s = 500224
BITSTREAD = 1000000 0s = 500228 1s = 499772
BITSTREAD = 1000000 0s = 499182 1s = 500818
BITSTREAD = 1000000 0s = 499259 1s = 500741
BITSTREAD = 1000000 0s = 499867 1s = 500133
BITSTREAD = 1000000 0s = 500395 1s = 499605
BITSTREAD = 1000000 0s = 499012 1s = 500988
BITSTREAD = 1000000 0s = 499288 1s = 500712
BITSTREAD = 1000000 0s = 499419 1s = 500581
BITSTREAD = 1000000 0s = 500011 1s = 499989
BITSTREAD = 1000000 0s = 500765 1s = 499235

BITSREAD = 1000000 0s = 499969 1s = 500031
BITSREAD = 1000000 0s = 500542 1s = 499458
BITSREAD = 1000000 0s = 498962 1s = 501038
BITSREAD = 1000000 0s = 499479 1s = 500521
BITSREAD = 1000000 0s = 499548 1s = 500452
BITSREAD = 1000000 0s = 499749 1s = 500251
BITSREAD = 1000000 0s = 500049 1s = 499951
BITSREAD = 1000000 0s = 500298 1s = 499702
BITSREAD = 1000000 0s = 500319 1s = 499681
BITSREAD = 1000000 0s = 500196 1s = 499804
BITSREAD = 1000000 0s = 500193 1s = 499807
BITSREAD = 1000000 0s = 500001 1s = 499999
BITSREAD = 1000000 0s = 499285 1s = 500715
BITSREAD = 1000000 0s = 500004 1s = 499996
BITSREAD = 1000000 0s = 500768 1s = 499232
BITSREAD = 1000000 0s = 499472 1s = 500528
BITSREAD = 1000000 0s = 499633 1s = 500367
BITSREAD = 1000000 0s = 499638 1s = 500362
BITSREAD = 1000000 0s = 500413 1s = 499587
BITSREAD = 1000000 0s = 500040 1s = 499960
BITSREAD = 1000000 0s = 499911 1s = 500089
BITSREAD = 1000000 0s = 500450 1s = 499550
BITSREAD = 1000000 0s = 499983 1s = 500017
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(KDF_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_14_kdf_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
80	66	81	84	86	97	100	81	79	81	0.359335	828/835	Frequency
96	89	85	93	78	80	94	72	71	77	0.417501	825/835	BlockFrequency
74	82	73	95	88	76	82	88	95	82	0.649662	830/835	CumulativeSums
74	85	81	55	83	109	85	77	98	88	0.008396	829/835	CumulativeSums
91	83	95	91	65	76	88	84	82	80	0.513645	823/835	Runs
71	93	93	100	75	74	89	88	74	78	0.250205	832/835	LongestRun
101	89	73	70	88	73	68	98	96	79	0.053032	826/835	Rank
88	87	84	75	84	97	84	67	98	71	0.262727	827/835	FFT
82	84	79	70	99	91	89	82	83	76	0.622070	833/835	NonOverlappingTemplate
90	86	71	96	82	78	80	72	88	92	0.572178	826/835	NonOverlappingTemplate
80	90	90	68	83	74	88	88	90	84	0.721703	828/835	NonOverlappingTemplate
79	80	91	97	73	79	89	89	85	73	0.642137	827/835	NonOverlappingTemplate
84	77	98	80	84	78	86	90	86	72	0.755486	828/835	NonOverlappingTemplate
80	83	79	84	95	86	90	84	69	85	0.819363	830/835	NonOverlappingTemplate
80	82	78	84	93	74	90	95	87	72	0.679683	827/835	NonOverlappingTemplate
71	89	82	78	88	96	80	81	91	79	0.745932	825/835	NonOverlappingTemplate
91	71	78	99	92	77	88	78	70	91	0.296051	825/835	NonOverlappingTemplate
90	77	79	70	71	82	90	83	104	89	0.253292	824/835	NonOverlappingTemplate
66	68	80	90	83	91	78	94	97	88	0.208596	829/835	NonOverlappingTemplate
81	85	94	85	90	91	67	82	82	78	0.702033	822/835	NonOverlappingTemplate
82	87	76	88	90	80	74	83	83	92	0.927262	826/835	NonOverlappingTemplate
87	72	86	82	72	91	91	87	90	77	0.741124	829/835	NonOverlappingTemplate
90	62	107	86	72	92	91	79	80	76	0.047967	830/835	NonOverlappingTemplate
80	77	86	70	93	99	96	73	80	81	0.321103	826/835	NonOverlappingTemplate
90	101	88	88	83	77	88	68	72	80	0.341778	826/835	NonOverlappingTemplate

96	75	81	83	76	91	74	93	84	82	0.697084	819/835	NonOverlappingTemplate
87	75	69	98	90	64	89	97	87	79	0.116862	828/835	NonOverlappingTemplate
92	88	63	85	73	99	86	78	77	94	0.174971	825/835	NonOverlappingTemplate
77	75	95	90	81	73	97	72	98	77	0.227952	830/835	NonOverlappingTemplate
71	87	92	89	87	73	80	93	72	91	0.506480	830/835	NonOverlappingTemplate
74	81	93	65	93	78	88	89	84	90	0.439501	828/835	NonOverlappingTemplate
89	96	66	93	86	83	76	85	90	71	0.332273	824/835	NonOverlappingTemplate
89	74	76	62	86	85	77	80	100	106	0.036743	829/835	NonOverlappingTemplate
94	92	78	84	79	90	94	80	71	73	0.530508	828/835	NonOverlappingTemplate
85	97	83	79	89	89	73	82	75	83	0.792713	831/835	NonOverlappingTemplate
79	84	72	85	70	77	89	105	98	76	0.131614	830/835	NonOverlappingTemplate
93	75	79	90	78	96	79	75	68	102	0.157230	820/835	NonOverlappingTemplate
93	86	86	79	80	90	83	75	76	87	0.919917	821/835	NonOverlappingTemplate
85	85	77	70	81	80	86	89	94	88	0.832203	829/835	NonOverlappingTemplate
75	75	93	84	82	82	91	87	80	86	0.913775	829/835	NonOverlappingTemplate
77	96	87	81	90	93	72	73	76	90	0.499355	829/835	NonOverlappingTemplate
94	86	80	97	84	76	80	80	85	73	0.729019	823/835	NonOverlappingTemplate
71	86	85	80	85	87	87	90	95	69	0.624577	829/835	NonOverlappingTemplate
85	78	98	89	89	85	90	80	71	70	0.489919	828/835	NonOverlappingTemplate
83	78	76	105	81	73	87	84	86	82	0.504100	824/835	NonOverlappingTemplate
77	73	89	88	87	79	88	86	85	83	0.955072	825/835	NonOverlappingTemplate
96	92	67	81	97	81	83	71	80	87	0.304835	827/835	NonOverlappingTemplate
70	67	89	97	72	76	88	90	94	92	0.149953	826/835	NonOverlappingTemplate
88	89	70	84	88	87	80	80	91	78	0.870363	822/835	NonOverlappingTemplate
75	89	74	83	72	86	84	91	88	93	0.736295	828/835	NonOverlappingTemplate
81	77	86	72	99	89	80	79	78	94	0.572178	827/835	NonOverlappingTemplate
88	91	83	84	82	83	77	86	84	77	0.990063	826/835	NonOverlappingTemplate
85	71	85	90	70	75	105	79	97	78	0.125357	829/835	NonOverlappingTemplate
73	99	76	79	82	83	76	92	86	89	0.617057	833/835	NonOverlappingTemplate
77	93	89	88	83	84	94	80	71	76	0.711896	829/835	NonOverlappingTemplate
86	85	78	70	103	83	79	100	76	75	0.194321	824/835	NonOverlappingTemplate
85	83	71	93	82	85	95	85	73	83	0.736295	827/835	NonOverlappingTemplate
92	79	87	94	73	91	84	79	74	82	0.741124	826/835	NonOverlappingTemplate
86	81	76	73	84	88	73	93	79	102	0.417501	831/835	NonOverlappingTemplate
83	70	99	99	82	93	81	79	80	69	0.205941	826/835	NonOverlappingTemplate
82	86	82	74	81	90	67	81	95	97	0.439501	825/835	NonOverlappingTemplate
68	94	73	100	81	95	76	83	93	72	0.126235	828/835	NonOverlappingTemplate
74	101	84	85	96	89	74	70	71	91	0.165905	831/835	NonOverlappingTemplate
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80	72	86	76	81	87	87	87	83	96	0.840564	825/835	NonOverlappingTemplate
88	81	77	91	92	102	67	77	75	85	0.261136	829/835	NonOverlappingTemplate
67	92	79	92	74	78	86	99	89	79	0.324798	829/835	NonOverlappingTemplate
82	99	77	81	88	90	84	82	84	68	0.614552	830/835	NonOverlappingTemplate
93	87	69	73	94	84	66	87	87	95	0.211279	824/835	NonOverlappingTemplate
93	91	81	78	83	87	74	73	83	92	0.771982	826/835	NonOverlappingTemplate
70	82	89	92	79	82	100	71	77	93	0.310193	827/835	NonOverlappingTemplate
84	80	90	92	88	78	78	92	82	71	0.806191	828/835	NonOverlappingTemplate
89	101	65	79	87	84	82	93	88	67	0.152003	829/835	NonOverlappingTemplate
72	92	75	74	92	90	74	76	107	83	0.113605	826/835	NonOverlappingTemplate
84	97	79	64	86	88	74	94	84	85	0.365313	824/835	NonOverlappingTemplate
81	89	95	74	84	87	77	83	71	94	0.634611	826/835	NonOverlappingTemplate
81	65	83	86	76	74	88	86	99	97	0.244115	827/835	NonOverlappingTemplate

95	79	88	88	95	88	73	82	76	71	0.523257	825/835	NonOverlappingTemplate
102	81	85	76	72	70	85	80	83	101	0.182035	826/835	NonOverlappingTemplate
80	72	87	92	79	72	89	98	80	86	0.559831	830/835	NonOverlappingTemplate
87	95	80	89	80	73	74	84	81	92	0.760230	828/835	NonOverlappingTemplate
93	91	66	76	66	105	81	91	91	75	0.038528	827/835	NonOverlappingTemplate
82	84	79	71	98	91	89	81	84	76	0.687154	833/835	NonOverlappingTemplate
83	84	89	89	97	83	64	89	78	79	0.482894	826/835	NonOverlappingTemplate
84	81	81	78	79	79	85	95	78	95	0.866540	827/835	NonOverlappingTemplate
95	80	80	78	81	81	90	75	83	92	0.860716	829/835	NonOverlappingTemplate
79	91	71	84	64	92	84	90	85	95	0.317438	825/835	NonOverlappingTemplate
85	73	105	86	77	80	76	87	74	92	0.313801	828/835	NonOverlappingTemplate
84	66	85	89	80	76	88	81	95	91	0.582101	824/835	NonOverlappingTemplate
94	72	72	75	77	103	87	80	97	78	0.146922	824/835	NonOverlappingTemplate
71	70	86	81	86	88	99	79	90	85	0.508864	826/835	NonOverlappingTemplate
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85	85	79	103	85	80	91	89	68	70	0.261136	822/835	NonOverlappingTemplate
69	99	78	76	92	79	76	80	96	90	0.287448	830/835	NonOverlappingTemplate
73	88	89	75	90	79	93	82	90	76	0.750720	829/835	NonOverlappingTemplate
87	88	90	87	97	81	73	80	75	77	0.719257	824/835	NonOverlappingTemplate
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59	82	91	99	82	103	75	74	88	82	0.038833	833/835	NonOverlappingTemplate
80	89	88	83	95	71	81	88	79	81	0.842628	828/835	NonOverlappingTemplate
81	87	88	84	77	93	76	80	78	91	0.913775	829/835	NonOverlappingTemplate
83	82	63	80	87	94	105	79	83	79	0.171525	828/835	NonOverlappingTemplate
80	89	76	81	84	86	78	75	91	95	0.844682	825/835	NonOverlappingTemplate
89	89	83	82	78	84	81	82	88	79	0.994866	823/835	NonOverlappingTemplate
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94	90	65	77	66	104	82	91	90	76	0.046499	827/835	NonOverlappingTemplate
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92	79	78	88	91	76	84	85	80	82	0.950571	823/835	Universal
79	90	66	80	90	86	86	83	93	82	0.699560	818/835	ApproximateEntropy
52	68	43	35	58	53	55	49	49	49	0.139296	507/511	RandomExcursions
58	46	55	36	59	50	49	40	55	63	0.160840	503/511	RandomExcursions
60	56	51	54	45	58	36	50	54	47	0.451878	505/511	RandomExcursions
57	39	43	56	44	57	63	44	57	51	0.247295	508/511	RandomExcursions
49	43	47	55	45	66	53	48	54	51	0.584197	507/511	RandomExcursions
43	43	42	46	64	57	65	55	50	46	0.150573	508/511	RandomExcursions
53	55	44	41	54	44	51	47	66	56	0.378138	502/511	RandomExcursions
44	57	60	49	39	47	53	42	62	58	0.244826	505/511	RandomExcursions
43	54	50	52	62	51	48	51	54	46	0.860754	507/511	RandomExcursionsVariant
46	52	44	59	58	57	50	51	38	56	0.512565	506/511	RandomExcursionsVariant
49	44	61	47	58	48	54	49	57	44	0.702130	508/511	RandomExcursionsVariant
41	59	66	47	41	63	49	57	42	46	0.075994	509/511	RandomExcursionsVariant
46	51	62	47	53	53	40	52	56	51	0.718152	508/511	RandomExcursionsVariant
50	55	57	47	41	61	43	40	59	58	0.267731	507/511	RandomExcursionsVariant
56	65	50	41	40	51	46	52	60	50	0.289389	506/511	RandomExcursionsVariant
57	58	48	49	62	41	56	44	40	56	0.306439	505/511	RandomExcursionsVariant
53	51	46	56	56	58	49	48	50	44	0.927375	504/511	RandomExcursionsVariant
44	54	52	53	53	53	48	51	49	54	0.993961	506/511	RandomExcursionsVariant
39	46	58	53	44	44	51	65	53	58	0.265110	509/511	RandomExcursionsVariant
36	53	45	55	70	46	41	51	64	50	0.031089	509/511	RandomExcursionsVariant
39	56	49	44	55	55	58	53	50	52	0.734017	508/511	RandomExcursionsVariant
39	53	48	52	53	60	60	42	63	41	0.175426	509/511	RandomExcursionsVariant

40	62	44	58	50	38	59	60	52	48	0.160840	510/511	RandomExcursionsVariant
48	41	54	55	47	50	60	66	43	47	0.309348	509/511	RandomExcursionsVariant
41	45	57	38	63	50	64	43	53	57	0.094219	508/511	RandomExcursionsVariant
39	52	57	45	53	45	52	60	51	57	0.600424	507/511	RandomExcursionsVariant
92	80	84	82	86	76	82	84	87	82	0.990883	821/835	Serial
102	73	73	94	76	91	80	83	80	83	0.367320	821/835	Serial
92	81	71	87	77	86	78	78	88	97	0.662191	828/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 499 for a sample size = 511 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(KDF_Trap)_freq

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BITSREAD = 1000000 0s = 500259 1s = 499741
BITSREAD = 1000000 0s = 499844 1s = 500156
BITSREAD = 1000000 0s = 500276 1s = 499724
BITSREAD = 1000000 0s = 499457 1s = 500543
BITSREAD = 1000000 0s = 499979 1s = 500021
BITSREAD = 1000000 0s = 499446 1s = 500554
BITSREAD = 1000000 0s = 499639 1s = 500361
BITSREAD = 1000000 0s = 500785 1s = 499215
BITSREAD = 1000000 0s = 499516 1s = 500484
BITSREAD = 1000000 0s = 500336 1s = 499664
BITSREAD = 1000000 0s = 500452 1s = 499548
BITSREAD = 1000000 0s = 500465 1s = 499535
BITSREAD = 1000000 0s = 499774 1s = 500226
BITSREAD = 1000000 0s = 500798 1s = 499202
BITSREAD = 1000000 0s = 499394 1s = 500606
BITSREAD = 1000000 0s = 500565 1s = 499435
BITSREAD = 1000000 0s = 500727 1s = 499273
BITSREAD = 1000000 0s = 500132 1s = 499868

BITSREAD = 1000000 0s = 500307 1s = 499693
BITSREAD = 1000000 0s = 499860 1s = 500140
BITSREAD = 1000000 0s = 500284 1s = 499716
BITSREAD = 1000000 0s = 499973 1s = 500027
BITSREAD = 1000000 0s = 500042 1s = 499958
BITSREAD = 1000000 0s = 501126 1s = 498874
BITSREAD = 1000000 0s = 499274 1s = 500726
BITSREAD = 1000000 0s = 500480 1s = 499520
BITSREAD = 1000000 0s = 499468 1s = 500532
BITSREAD = 1000000 0s = 499225 1s = 500775
BITSREAD = 1000000 0s = 500126 1s = 499874
BITSREAD = 1000000 0s = 499972 1s = 500028
BITSREAD = 1000000 0s = 500229 1s = 499771
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BITSREAD = 1000000 0s = 500324 1s = 499676
BITSREAD = 1000000 0s = 500066 1s = 499934
BITSREAD = 1000000 0s = 499837 1s = 500163
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BITSREAD = 1000000 0s = 501017 1s = 498983
BITSREAD = 1000000 0s = 499923 1s = 500077
BITSREAD = 1000000 0s = 499083 1s = 500917
BITSREAD = 1000000 0s = 500219 1s = 499781
BITSREAD = 1000000 0s = 499818 1s = 500182
BITSREAD = 1000000 0s = 499486 1s = 500514
BITSREAD = 1000000 0s = 499655 1s = 500345
BITSREAD = 1000000 0s = 499881 1s = 500119
BITSREAD = 1000000 0s = 500112 1s = 499888
BITSREAD = 1000000 0s = 499619 1s = 500381
BITSREAD = 1000000 0s = 500037 1s = 499963
BITSREAD = 1000000 0s = 499389 1s = 500611
BITSREAD = 1000000 0s = 500542 1s = 499458
BITSREAD = 1000000 0s = 500980 1s = 499020
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BITSREAD = 1000000 0s = 500446 1s = 499554
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BITSREAD = 1000000 0s = 500214 1s = 499786
BITSREAD = 1000000 0s = 499243 1s = 500757
BITSREAD = 1000000 0s = 500340 1s = 499660
BITSREAD = 1000000 0s = 499245 1s = 500755
BITSREAD = 1000000 0s = 500221 1s = 499779
BITSREAD = 1000000 0s = 498985 1s = 501015
BITSREAD = 1000000 0s = 499830 1s = 500170
BITSREAD = 1000000 0s = 499956 1s = 500044
BITSREAD = 1000000 0s = 500245 1s = 499755
BITSREAD = 1000000 0s = 499959 1s = 500041
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BITSREAD = 1000000 0s = 499249 1s = 500751
BITSREAD = 1000000 0s = 499719 1s = 500281
BITSREAD = 1000000 0s = 499564 1s = 500436
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BITSREAD = 1000000 0s = 499758 1s = 500242

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BITSREAD = 1000000 0s = 500931 1s = 499069
BITSREAD = 1000000 0s = 499398 1s = 500602
BITSREAD = 1000000 0s = 500187 1s = 499813
BITSREAD = 1000000 0s = 499996 1s = 500004
BITSREAD = 1000000 0s = 499754 1s = 500246
BITSREAD = 1000000 0s = 500249 1s = 499751
BITSREAD = 1000000 0s = 500792 1s = 499208
BITSREAD = 1000000 0s = 499996 1s = 500004
BITSREAD = 1000000 0s = 500975 1s = 499025
BITSREAD = 1000000 0s = 499653 1s = 500347
BITSREAD = 1000000 0s = 500298 1s = 499702
BITSREAD = 1000000 0s = 499261 1s = 500739
BITSREAD = 1000000 0s = 499375 1s = 500625
BITSREAD = 1000000 0s = 499597 1s = 500403
BITSREAD = 1000000 0s = 500480 1s = 499520
BITSREAD = 1000000 0s = 499495 1s = 500505
BITSREAD = 1000000 0s = 500830 1s = 499170
BITSREAD = 1000000 0s = 500299 1s = 499701
BITSREAD = 1000000 0s = 498701 1s = 501299
BITSREAD = 1000000 0s = 499781 1s = 500219
BITSREAD = 1000000 0s = 499849 1s = 500151
BITSREAD = 1000000 0s = 499933 1s = 500067
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BITSREAD = 1000000 0s = 500319 1s = 499681
BITSREAD = 1000000 0s = 500511 1s = 499489
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BITSREAD = 1000000 0s = 499968 1s = 500032
BITSREAD = 1000000 0s = 500297 1s = 499703
BITSREAD = 1000000 0s = 499818 1s = 500182
BITSREAD = 1000000 0s = 500494 1s = 499506
BITSREAD = 1000000 0s = 499997 1s = 500003
BITSREAD = 1000000 0s = 500488 1s = 499512

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(ENCRYPT_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_10_encrypt_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
78	94	80	79	97	95	78	69	77	88	0.387763	828/835	Frequency
74	81	90	78	82	90	81	92	81	86	0.930096	826/835	BlockFrequency
83	91	81	76	92	94	86	80	73	79	0.792713	831/835	CumulativeSums
78	97	78	70	87	88	84	87	67	99	0.220884	828/835	CumulativeSums
76	84	83	97	74	85	77	89	70	100	0.321103	825/835	Runs
75	101	75	77	66	81	88	90	90	92	0.220884	829/835	LongestRun
88	80	68	74	81	98	89	88	75	94	0.365313	829/835	Rank

74	98	84	72	80	63	111	93	68	92	0.003682	824/835	FFT
82	86	79	83	77	85	78	85	87	93	0.979728	821/835	NonOverlappingTemplate
88	80	90	86	76	87	81	69	88	90	0.817190	825/835	NonOverlappingTemplate
80	72	76	77	94	91	70	100	76	99	0.121897	833/835	NonOverlappingTemplate
80	100	82	79	89	84	74	81	73	93	0.567232	825/835	NonOverlappingTemplate
76	85	83	87	81	83	85	83	78	94	0.975432	828/835	NonOverlappingTemplate
98	70	89	87	82	102	73	76	81	77	0.212631	823/835	NonOverlappingTemplate
86	85	58	71	88	98	82	98	96	73	0.030831	825/835	NonOverlappingTemplate
85	87	93	94	61	94	72	86	85	78	0.207265	828/835	NonOverlappingTemplate
89	83	76	78	101	85	71	79	82	91	0.535361	827/835	NonOverlappingTemplate
88	70	87	77	84	86	93	91	80	79	0.801731	827/835	NonOverlappingTemplate
81	89	90	88	68	73	80	92	90	84	0.639628	826/835	NonOverlappingTemplate
90	71	79	78	88	91	80	86	88	84	0.881535	828/835	NonOverlappingTemplate
92	94	87	65	97	73	87	84	74	82	0.256408	829/835	NonOverlappingTemplate
84	92	75	74	98	80	76	99	73	84	0.315615	820/835	NonOverlappingTemplate
82	82	91	65	98	66	97	75	81	98	0.052222	830/835	NonOverlappingTemplate
79	84	80	91	85	78	81	94	84	79	0.958286	829/835	NonOverlappingTemplate
89	85	87	90	68	64	81	74	103	94	0.075103	827/835	NonOverlappingTemplate
88	90	80	81	77	55	97	88	95	84	0.082077	829/835	NonOverlappingTemplate
80	93	100	82	80	88	80	86	75	71	0.540228	830/835	NonOverlappingTemplate
85	82	79	80	73	82	84	87	88	95	0.922899	825/835	NonOverlappingTemplate
82	76	100	86	98	89	76	56	86	86	0.049860	827/835	NonOverlappingTemplate
88	96	85	90	82	83	81	82	79	69	0.778956	828/835	NonOverlappingTemplate
84	82	96	75	89	82	68	88	83	88	0.679683	827/835	NonOverlappingTemplate
83	74	80	96	76	95	84	91	71	85	0.532933	831/835	NonOverlappingTemplate
81	77	82	87	87	80	96	71	79	95	0.669696	828/835	NonOverlappingTemplate
91	80	69	88	95	71	95	74	95	77	0.219492	831/835	NonOverlappingTemplate
81	84	82	76	100	78	89	74	87	84	0.733874	825/835	NonOverlappingTemplate
91	85	90	86	80	69	94	81	80	79	0.760230	829/835	NonOverlappingTemplate
78	74	93	81	77	79	102	72	84	95	0.296051	830/835	NonOverlappingTemplate
84	81	77	93	78	85	73	102	81	81	0.564762	830/835	NonOverlappingTemplate
94	89	108	87	73	71	75	85	81	72	0.094299	827/835	NonOverlappingTemplate
73	91	72	86	76	91	88	87	77	94	0.607042	828/835	NonOverlappingTemplate
62	87	90	85	88	97	95	76	82	73	0.194321	831/835	NonOverlappingTemplate
91	85	82	74	87	75	84	73	98	86	0.657182	826/835	NonOverlappingTemplate
72	90	86	95	85	79	79	89	69	91	0.545110	830/835	NonOverlappingTemplate
75	86	92	80	85	81	88	87	92	69	0.750720	827/835	NonOverlappingTemplate
99	64	91	75	94	77	73	88	98	76	0.073993	828/835	NonOverlappingTemplate
78	71	81	77	82	105	78	81	93	89	0.322947	823/835	NonOverlappingTemplate
98	74	80	85	77	76	77	88	96	84	0.569704	818/835	NonOverlappingTemplate
102	76	76	81	87	83	84	93	65	88	0.262727	824/835	NonOverlappingTemplate
92	75	88	79	64	85	69	90	109	84	0.038225	819/835	NonOverlappingTemplate
85	84	62	96	85	70	87	100	85	81	0.150975	828/835	NonOverlappingTemplate
97	87	89	91	72	78	92	83	72	74	0.443974	825/835	NonOverlappingTemplate
97	78	81	73	70	79	93	88	83	93	0.450726	825/835	NonOverlappingTemplate
76	71	86	100	93	73	77	103	80	76	0.112804	830/835	NonOverlappingTemplate
79	90	90	95	72	80	93	87	75	74	0.552456	826/835	NonOverlappingTemplate
87	93	96	79	88	95	73	71	82	71	0.322947	821/835	NonOverlappingTemplate
72	82	73	79	76	109	81	93	78	92	0.117688	830/835	NonOverlappingTemplate
78	84	87	85	89	85	73	83	84	87	0.982306	824/835	NonOverlappingTemplate
77	74	91	92	87	91	98	72	74	79	0.396129	827/835	NonOverlappingTemplate
82	92	95	84	83	88	79	74	75	83	0.836404	829/835	NonOverlappingTemplate

72	92	84	80	85	90	88	81	86	77	0.905774	830/835	NonOverlappingTemplate
84	91	83	80	81	86	89	83	77	81	0.992026	830/835	NonOverlappingTemplate
88	77	86	82	73	82	96	84	86	81	0.892246	831/835	NonOverlappingTemplate
72	93	81	81	72	81	82	92	91	90	0.677189	829/835	NonOverlappingTemplate
65	74	88	95	79	99	91	73	78	93	0.134376	833/835	NonOverlappingTemplate
77	91	90	83	60	90	86	87	83	88	0.404600	827/835	NonOverlappingTemplate
73	87	96	88	88	80	76	79	91	77	0.726584	832/835	NonOverlappingTemplate
80	95	95	94	78	68	80	80	75	90	0.381559	822/835	NonOverlappingTemplate
71	72	94	94	91	95	86	71	87	74	0.235193	826/835	NonOverlappingTemplate
68	79	78	85	77	74	93	94	90	97	0.328521	827/835	NonOverlappingTemplate
82	79	87	77	85	77	81	85	92	90	0.965243	831/835	NonOverlappingTemplate
72	63	95	95	106	78	90	78	77	81	0.037626	829/835	NonOverlappingTemplate
94	90	102	76	81	70	79	77	92	74	0.233731	823/835	NonOverlappingTemplate
81	96	67	78	90	74	80	82	92	95	0.361321	829/835	NonOverlappingTemplate
85	89	75	81	85	89	79	92	75	85	0.925823	825/835	NonOverlappingTemplate
88	64	90	67	95	76	92	84	78	101	0.070225	824/835	NonOverlappingTemplate
75	73	91	86	79	71	102	85	75	98	0.178474	828/835	NonOverlappingTemplate
90	65	92	89	86	78	81	97	91	66	0.163700	827/835	NonOverlappingTemplate
71	96	78	76	81	67	88	84	97	97	0.170388	827/835	NonOverlappingTemplate
76	73	83	91	93	72	71	95	95	86	0.308400	828/835	NonOverlappingTemplate
86	80	78	99	87	79	86	83	86	71	0.745932	829/835	NonOverlappingTemplate
90	84	86	85	85	81	83	81	86	74	0.991657	824/835	NonOverlappingTemplate
88	80	79	75	86	84	70	87	99	87	0.637119	829/835	NonOverlappingTemplate
82	86	79	83	77	85	78	85	87	93	0.979728	821/835	NonOverlappingTemplate
80	91	79	93	82	94	87	65	82	82	0.547555	827/835	NonOverlappingTemplate
94	83	68	79	73	107	84	79	77	91	0.125357	828/835	NonOverlappingTemplate
78	79	83	87	88	76	76	88	90	90	0.932870	828/835	NonOverlappingTemplate
82	83	88	82	95	72	77	78	108	70	0.128901	823/835	NonOverlappingTemplate
81	94	69	81	85	75	90	90	76	94	0.537793	822/835	NonOverlappingTemplate
82	78	70	60	81	92	87	94	106	85	0.037329	823/835	NonOverlappingTemplate
78	81	86	80	78	73	103	94	79	83	0.480562	829/835	NonOverlappingTemplate
107	78	65	76	107	92	71	80	88	71	0.005109	825/835	NonOverlappingTemplate
71	78	70	99	82	86	90	82	94	83	0.406735	829/835	NonOverlappingTemplate
87	81	88	63	81	98	90	87	76	84	0.391933	827/835	NonOverlappingTemplate
73	94	73	85	89	77	84	94	74	92	0.513645	829/835	NonOverlappingTemplate
81	88	83	77	100	79	84	88	73	82	0.741124	830/835	NonOverlappingTemplate
91	73	86	64	88	95	97	70	84	87	0.159362	828/835	NonOverlappingTemplate
76	84	77	87	82	82	115	69	91	72	0.033134	830/835	NonOverlappingTemplate
95	79	85	75	86	78	80	96	84	77	0.764949	825/835	NonOverlappingTemplate
86	82	81	86	87	86	81	98	76	72	0.799488	828/835	NonOverlappingTemplate
82	87	90	102	79	65	73	79	82	96	0.177300	827/835	NonOverlappingTemplate
70	79	86	99	64	87	86	90	81	93	0.218106	824/835	NonOverlappingTemplate
86	78	80	102	83	67	88	82	90	79	0.432838	829/835	NonOverlappingTemplate
71	77	96	78	93	89	76	86	86	83	0.642137	826/835	NonOverlappingTemplate
71	80	80	96	67	76	90	81	111	83	0.038225	822/835	NonOverlappingTemplate
87	106	79	86	82	73	94	78	71	79	0.226524	826/835	NonOverlappingTemplate
92	79	61	95	86	89	84	72	88	89	0.244115	821/835	NonOverlappingTemplate
76	77	86	84	100	87	66	87	92	80	0.385688	829/835	NonOverlappingTemplate
71	91	99	73	86	84	75	89	85	82	0.516041	832/835	NonOverlappingTemplate
91	90	73	88	82	93	85	69	77	87	0.624577	825/835	NonOverlappingTemplate
89	89	79	81	85	83	69	94	76	90	0.724146	829/835	NonOverlappingTemplate
77	88	85	78	73	81	83	90	96	84	0.836404	827/835	NonOverlappingTemplate

83	95	71	88	78	75	84	86	81	94	0.692124	828/835	NonOverlappingTemplate
83	84	84	87	89	85	79	81	82	81	0.999438	826/835	NonOverlappingTemplate
85	92	86	97	77	74	84	84	72	84	0.699560	828/835	NonOverlappingTemplate
80	99	77	102	88	76	84	94	73	62	0.051029	825/835	NonOverlappingTemplate
90	79	82	84	79	79	78	75	90	99	0.745932	828/835	NonOverlappingTemplate
90	78	84	81	86	79	99	76	79	83	0.823682	823/835	NonOverlappingTemplate
79	88	100	71	68	98	83	75	87	86	0.202007	827/835	NonOverlappingTemplate
85	92	66	71	98	84	83	84	96	76	0.236662	830/835	NonOverlappingTemplate
68	95	75	79	88	91	83	76	78	102	0.229386	827/835	NonOverlappingTemplate
76	69	82	87	110	87	80	76	85	83	0.168134	827/835	NonOverlappingTemplate
84	78	75	88	90	86	84	86	81	83	0.986806	828/835	NonOverlappingTemplate
90	87	93	79	75	80	88	79	81	83	0.935582	833/835	NonOverlappingTemplate
78	90	86	85	86	75	90	82	82	81	0.978354	827/835	NonOverlappingTemplate
76	81	85	81	91	90	84	83	83	81	0.988742	825/835	NonOverlappingTemplate
80	91	84	94	82	77	94	83	75	75	0.760230	830/835	NonOverlappingTemplate
93	69	87	87	78	83	83	90	92	73	0.634611	827/835	NonOverlappingTemplate
98	74	76	86	96	83	94	79	78	71	0.341778	827/835	NonOverlappingTemplate
72	95	99	110	85	76	81	72	68	77	0.015874	824/835	NonOverlappingTemplate
83	89	99	79	83	79	86	63	99	75	0.177300	825/835	NonOverlappingTemplate
85	86	93	82	78	72	91	85	66	97	0.367320	827/835	NonOverlappingTemplate
87	85	78	86	61	97	75	81	98	87	0.183234	825/835	NonOverlappingTemplate
89	67	92	78	98	73	69	91	91	87	0.171525	831/835	NonOverlappingTemplate
90	102	90	78	88	67	83	79	81	77	0.359335	826/835	NonOverlappingTemplate
79	95	80	89	85	78	75	77	83	94	0.790439	826/835	NonOverlappingTemplate
89	86	78	90	88	70	79	92	82	81	0.834308	827/835	NonOverlappingTemplate
89	74	82	98	80	76	79	84	85	88	0.799488	827/835	NonOverlappingTemplate
69	89	93	90	67	81	75	87	91	93	0.299543	829/835	NonOverlappingTemplate
84	88	71	85	79	108	89	79	84	68	0.155121	826/835	NonOverlappingTemplate
114	76	87	79	83	79	92	77	71	77	0.060391	824/835	NonOverlappingTemplate
90	89	80	77	70	94	80	91	83	81	0.741124	825/835	NonOverlappingTemplate
70	85	85	95	90	84	101	65	74	86	0.146922	822/835	NonOverlappingTemplate
89	85	81	84	77	86	96	86	81	70	0.806191	822/835	NonOverlappingTemplate
90	72	85	90	76	80	92	98	72	80	0.471285	825/835	NonOverlappingTemplate
87	73	77	89	86	90	84	83	86	80	0.956159	826/835	NonOverlappingTemplate
98	77	80	83	73	81	87	79	97	80	0.599543	827/835	NonOverlappingTemplate
85	67	84	79	90	89	79	88	89	85	0.803965	821/835	NonOverlappingTemplate
99	76	87	74	74	77	95	83	83	87	0.516041	825/835	NonOverlappingTemplate
84	77	87	78	92	75	87	89	84	82	0.949407	824/835	NonOverlappingTemplate
80	93	89	76	73	83	89	80	87	85	0.888728	825/835	NonOverlappingTemplate
70	89	88	72	77	89	78	86	108	78	0.147926	830/835	NonOverlappingTemplate
81	68	75	89	80	86	92	101	79	84	0.413175	826/835	NonOverlappingTemplate
69	84	86	88	90	73	84	84	80	97	0.629593	829/835	NonOverlappingTemplate
101	94	74	78	71	80	82	85	83	87	0.462093	822/835	NonOverlappingTemplate
88	73	85	83	94	93	82	82	72	83	0.769644	826/835	NonOverlappingTemplate
87	81	79	75	87	82	71	87	99	87	0.677189	830/835	NonOverlappingTemplate
94	92	69	76	83	70	88	89	83	91	0.443974	822/835	OverlappingTemplate
94	96	88	80	68	86	74	99	74	76	0.194321	819/835	Universal
82	88	84	90	78	90	80	94	74	75	0.823682	824/835	ApproximateEntropy
51	49	62	45	56	47	45	33	65	50	0.088226	497/503	RandomExcursions
52	51	65	40	53	41	59	40	58	44	0.121616	497/503	RandomExcursions
51	44	50	58	46	55	54	53	48	44	0.901959	499/503	RandomExcursions
52	37	51	48	63	42	46	61	56	47	0.221317	496/503	RandomExcursions

48	44	43	46	54	55	56	50	50	57	0.866097	500/503	RandomExcursions
36	44	58	54	49	52	57	55	49	49	0.548314	500/503	RandomExcursions
53	49	41	53	43	59	58	45	46	56	0.593478	500/503	RandomExcursions
43	60	49	47	50	51	55	47	49	52	0.912724	498/503	RandomExcursions
50	40	58	48	50	48	48	65	49	47	0.512137	502/503	RandomExcursionsVariant
49	48	50	54	46	45	55	56	51	49	0.980883	503/503	RandomExcursionsVariant
49	48	51	43	64	49	44	55	49	51	0.709558	501/503	RandomExcursionsVariant
42	47	57	45	52	50	50	53	57	50	0.899171	500/503	RandomExcursionsVariant
41	54	55	51	48	49	46	48	59	52	0.862883	499/503	RandomExcursionsVariant
42	52	51	56	48	54	54	50	55	41	0.839507	500/503	RandomExcursionsVariant
44	52	54	51	64	46	39	61	47	45	0.282626	498/503	RandomExcursionsVariant
44	60	53	49	53	56	48	51	38	51	0.655854	499/503	RandomExcursionsVariant
51	46	55	50	55	50	47	57	43	49	0.941144	499/503	RandomExcursionsVariant
45	44	43	60	49	66	44	52	45	55	0.266235	497/503	RandomExcursionsVariant
46	45	50	50	58	49	59	46	58	42	0.676615	499/503	RandomExcursionsVariant
47	37	65	52	46	54	56	46	46	54	0.314544	499/503	RandomExcursionsVariant
45	55	53	44	51	50	45	58	58	44	0.769527	500/503	RandomExcursionsVariant
50	54	57	42	47	54	48	46	53	52	0.927677	500/503	RandomExcursionsVariant
51	63	51	45	48	50	55	50	60	30	0.105618	499/503	RandomExcursionsVariant
58	47	55	56	39	51	48	57	43	49	0.618385	497/503	RandomExcursionsVariant
56	51	43	58	45	58	49	36	58	49	0.348869	499/503	RandomExcursionsVariant
49	54	53	50	52	50	50	48	43	54	0.991780	500/503	RandomExcursionsVariant
75	79	90	81	87	102	79	73	83	86	0.569704	828/835	Serial
72	90	76	85	88	70	92	83	94	85	0.584587	830/835	Serial
85	90	67	77	100	83	90	64	93	86	0.126235	827/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 491 for a sample size = 503 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(ENCRYPT_Trap)_freq

FILE = nist_10_encrypt_trap_100mb.bin

ALPHA = 0.0100

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(AEAD_Trap)_finalAnalysisReport

RESULTS FOR THE UNIFORMITY OF P-VALUES AND THE PROPORTION OF PASSING SEQUENCES

generator is <nist_16_aead_trap_100mb.bin>

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P-VALUE	PROPORTION	STATISTICAL TEST
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66	76	86	86	86	78	88	95	101	73	0.222284	826/835	Frequency
89	102	88	90	69	91	74	78	79	75	0.272420	823/835	BlockFrequency
66	83	84	65	83	83	94	100	91	86	0.153036	828/835	CumulativeSums
73	77	82	83	91	86	93	81	91	78	0.846725	830/835	CumulativeSums
78	82	95	80	86	98	61	79	96	80	0.156173	827/835	Runs
64	77	105	85	87	90	83	80	74	90	0.157230	822/835	LongestRun
81	92	82	83	92	77	78	89	68	93	0.627085	821/835	Rank
95	93	79	82	94	86	73	84	77	72	0.552456	831/835	FFT
74	84	92	73	92	80	82	70	84	104	0.235193	832/835	NonOverlappingTemplate
87	91	84	77	60	88	93	78	88	89	0.324798	826/835	NonOverlappingTemplate
90	87	81	79	76	89	82	108	67	76	0.150975	828/835	NonOverlappingTemplate
97	75	71	83	72	89	77	99	83	89	0.296051	825/835	NonOverlappingTemplate
91	84	71	77	80	96	78	80	96	82	0.579617	824/835	NonOverlappingTemplate
86	95	91	71	79	105	76	82	70	80	0.157230	826/835	NonOverlappingTemplate
87	78	93	70	75	92	90	86	90	74	0.559831	828/835	NonOverlappingTemplate
90	74	85	82	88	86	82	73	86	89	0.924369	829/835	NonOverlappingTemplate
73	93	80	84	65	97	88	82	87	86	0.400352	826/835	NonOverlappingTemplate
89	81	100	82	86	74	71	77	88	87	0.562295	828/835	NonOverlappingTemplate
91	70	87	77	78	89	100	87	83	73	0.432838	828/835	NonOverlappingTemplate
85	87	78	86	93	71	94	82	86	73	0.702033	826/835	NonOverlappingTemplate
84	85	81	85	70	90	78	90	92	80	0.854787	828/835	NonOverlappingTemplate
80	89	65	92	90	85	70	90	78	96	0.274061	832/835	NonOverlappingTemplate
92	73	77	94	81	74	73	90	83	98	0.383620	823/835	NonOverlappingTemplate
69	86	75	84	88	82	87	87	89	88	0.860716	831/835	NonOverlappingTemplate
83	74	77	84	99	90	88	88	75	77	0.647154	830/835	NonOverlappingTemplate
87	75	95	79	96	83	84	85	68	83	0.564762	824/835	NonOverlappingTemplate
84	68	93	76	65	89	92	98	74	96	0.076795	832/835	NonOverlappingTemplate
75	72	100	76	78	99	78	77	92	88	0.230827	826/835	NonOverlappingTemplate
91	75	80	86	75	80	104	80	78	86	0.487573	824/835	NonOverlappingTemplate
83	85	79	89	73	73	101	94	78	80	0.450726	824/835	NonOverlappingTemplate
86	72	89	94	84	88	95	75	67	85	0.400352	828/835	NonOverlappingTemplate
81	78	87	72	75	88	83	89	91	91	0.830087	823/835	NonOverlappingTemplate
78	97	86	86	81	80	74	86	88	79	0.866540	830/835	NonOverlappingTemplate
70	75	99	86	95	92	75	80	84	79	0.367320	831/835	NonOverlappingTemplate
94	76	86	65	87	81	83	82	95	86	0.518442	823/835	NonOverlappingTemplate
83	90	77	85	92	75	68	89	92	84	0.642137	825/835	NonOverlappingTemplate
90	82	89	77	77	89	78	80	82	91	0.939537	825/835	NonOverlappingTemplate
57	80	85	90	98	87	83	83	95	77	0.123617	828/835	NonOverlappingTemplate
81	67	90	89	90	75	80	92	80	91	0.587075	831/835	NonOverlappingTemplate
78	107	89	75	80	85	84	87	80	70	0.279027	829/835	NonOverlappingTemplate
84	90	68	86	86	83	69	91	97	81	0.430628	826/835	NonOverlappingTemplate
94	76	71	84	78	92	105	69	81	85	0.146922	826/835	NonOverlappingTemplate

68	81	79	103	97	74	79	87	78	89	0.200710	828/835	NonOverlappingTemplate
61	88	98	85	88	90	84	80	89	72	0.225104	828/835	NonOverlappingTemplate
78	83	87	89	79	75	100	64	73	107	0.036743	831/835	NonOverlappingTemplate
100	65	95	77	84	104	78	81	70	81	0.044031	820/835	NonOverlappingTemplate
101	79	94	77	75	79	84	75	91	80	0.473596	824/835	NonOverlappingTemplate
63	93	78	99	83	87	89	74	92	77	0.190567	825/835	NonOverlappingTemplate
83	97	73	78	105	92	83	76	73	75	0.152003	824/835	NonOverlappingTemplate
76	84	90	96	76	91	84	102	55	81	0.030340	825/835	NonOverlappingTemplate
81	71	85	88	90	79	82	81	93	85	0.895710	824/835	NonOverlappingTemplate
98	87	77	87	76	76	79	82	93	80	0.716807	824/835	NonOverlappingTemplate
81	67	84	81	79	100	76	89	90	88	0.457529	825/835	NonOverlappingTemplate
91	72	95	95	70	87	70	93	84	78	0.244115	826/835	NonOverlappingTemplate
93	76	83	82	75	97	76	77	83	93	0.619563	825/835	NonOverlappingTemplate
109	85	97	80	82	73	76	79	81	73	0.125357	827/835	NonOverlappingTemplate
81	93	89	75	84	86	91	77	88	71	0.757861	829/835	NonOverlappingTemplate
78	97	91	78	88	81	72	88	82	80	0.743530	827/835	NonOverlappingTemplate
73	84	86	95	82	88	96	72	80	79	0.619563	825/835	NonOverlappingTemplate
79	82	84	88	87	79	86	79	80	91	0.990063	828/835	NonOverlappingTemplate
89	87	93	62	93	92	80	66	88	85	0.150975	824/835	NonOverlappingTemplate
77	85	73	95	88	73	89	81	88	86	0.757861	829/835	NonOverlappingTemplate
76	80	77	97	72	81	87	86	97	82	0.567232	820/835	NonOverlappingTemplate
74	79	88	82	91	70	87	81	93	90	0.706971	828/835	NonOverlappingTemplate
81	83	90	85	87	78	85	74	86	86	0.982916	834/835	NonOverlappingTemplate
102	88	93	83	88	78	72	83	71	77	0.343701	821/835	NonOverlappingTemplate
79	74	83	78	98	84	75	92	72	100	0.284058	826/835	NonOverlappingTemplate
95	86	69	66	84	87	102	82	83	81	0.196856	827/835	NonOverlappingTemplate
76	88	78	84	82	80	88	82	86	91	0.980394	834/835	NonOverlappingTemplate
91	88	84	81	74	83	85	90	84	75	0.939537	827/835	NonOverlappingTemplate
93	86	83	82	80	80	73	77	91	90	0.872256	825/835	NonOverlappingTemplate
85	89	82	76	87	93	88	79	72	84	0.879704	827/835	NonOverlappingTemplate
85	81	77	88	95	94	84	77	72	82	0.745932	823/835	NonOverlappingTemplate
76	82	88	80	86	87	93	82	80	81	0.975432	826/835	NonOverlappingTemplate
92	85	75	84	78	83	84	92	76	86	0.924369	828/835	NonOverlappingTemplate
73	81	88	90	87	91	92	68	80	85	0.642137	828/835	NonOverlappingTemplate
77	77	80	82	84	93	88	69	96	89	0.602041	829/835	NonOverlappingTemplate
92	92	83	75	71	92	75	91	80	84	0.627085	828/835	NonOverlappingTemplate
94	75	86	82	81	85	74	79	86	93	0.840564	824/835	NonOverlappingTemplate
88	82	78	83	68	79	82	94	102	79	0.389844	822/835	NonOverlappingTemplate
75	68	96	79	76	105	73	90	78	95	0.067640	826/835	NonOverlappingTemplate
83	64	102	76	89	86	89	78	89	79	0.262727	827/835	NonOverlappingTemplate
74	85	91	73	92	80	83	69	85	103	0.254847	832/835	NonOverlappingTemplate
83	83	82	84	83	81	91	92	73	83	0.963332	826/835	NonOverlappingTemplate
84	76	109	87	74	64	88	68	81	104	0.007061	828/835	NonOverlappingTemplate
75	73	84	86	96	82	82	78	87	92	0.776638	825/835	NonOverlappingTemplate
93	86	79	90	88	88	75	80	82	74	0.870363	829/835	NonOverlappingTemplate
89	80	88	73	93	90	89	82	78	73	0.760230	829/835	NonOverlappingTemplate
73	89	78	79	89	82	87	87	95	76	0.808408	830/835	NonOverlappingTemplate
80	87	79	83	81	80	96	71	86	92	0.788157	829/835	NonOverlappingTemplate
76	71	86	102	74	90	82	85	87	82	0.473596	824/835	NonOverlappingTemplate
88	87	76	68	96	85	82	81	89	83	0.702033	825/835	NonOverlappingTemplate
84	99	83	82	92	75	87	70	73	90	0.448469	830/835	NonOverlappingTemplate
81	97	75	81	88	92	83	83	81	74	0.785868	826/835	NonOverlappingTemplate

68	92	87	83	95	62	83	97	94	74	0.072899	827/835	NonOverlappingTemplate
86	93	88	90	90	81	76	69	87	75	0.662191	828/835	NonOverlappingTemplate
73	88	83	70	83	93	102	74	85	84	0.339863	829/835	NonOverlappingTemplate
70	93	73	83	89	71	87	90	92	87	0.478235	825/835	NonOverlappingTemplate
78	78	69	81	92	95	89	101	65	87	0.116862	826/835	NonOverlappingTemplate
83	80	76	73	92	81	76	77	95	102	0.347567	829/835	NonOverlappingTemplate
85	83	75	92	96	95	73	81	76	79	0.574656	827/835	NonOverlappingTemplate
88	96	69	86	100	77	83	84	75	77	0.355384	832/835	NonOverlappingTemplate
83	81	88	100	72	82	83	74	89	83	0.667196	827/835	NonOverlappingTemplate
90	89	85	81	86	82	87	86	82	67	0.864610	820/835	NonOverlappingTemplate
73	99	84	72	83	90	94	64	86	90	0.169258	827/835	NonOverlappingTemplate
90	81	89	72	84	76	87	66	100	90	0.284058	826/835	NonOverlappingTemplate
76	95	92	76	82	82	86	78	91	77	0.785868	830/835	NonOverlappingTemplate
87	70	93	84	79	73	80	102	83	84	0.408875	827/835	NonOverlappingTemplate
86	85	76	75	89	83	77	96	89	79	0.830087	828/835	NonOverlappingTemplate
89	79	72	90	75	82	86	91	90	81	0.836404	827/835	NonOverlappingTemplate
75	77	95	86	75	86	91	77	89	84	0.781267	826/835	NonOverlappingTemplate
95	92	84	73	78	74	77	81	82	99	0.457529	826/835	NonOverlappingTemplate
87	77	93	86	89	88	67	85	82	81	0.753106	826/835	NonOverlappingTemplate
99	93	68	71	95	76	88	97	81	67	0.051029	828/835	NonOverlappingTemplate
78	81	84	74	90	79	106	66	94	83	0.143942	819/835	NonOverlappingTemplate
85	92	66	74	86	98	79	77	95	83	0.299543	827/835	NonOverlappingTemplate
79	76	96	72	72	98	92	92	80	78	0.289154	829/835	NonOverlappingTemplate
85	72	79	87	96	88	70	87	87	84	0.672195	826/835	NonOverlappingTemplate
78	87	87	86	74	96	97	80	75	75	0.552456	828/835	NonOverlappingTemplate
77	92	80	63	84	92	79	95	92	81	0.328521	831/835	NonOverlappingTemplate
83	93	81	90	81	84	76	92	79	76	0.893985	827/835	NonOverlappingTemplate
82	88	82	77	91	96	80	81	95	63	0.328521	830/835	NonOverlappingTemplate
76	74	89	74	93	102	93	77	83	74	0.265929	828/835	NonOverlappingTemplate
81	86	92	81	90	75	68	84	86	92	0.704504	829/835	NonOverlappingTemplate
85	85	86	95	90	69	91	83	84	67	0.459808	832/835	NonOverlappingTemplate
68	87	84	93	80	79	80	98	83	83	0.612047	828/835	NonOverlappingTemplate
85	75	88	97	67	99	82	76	84	82	0.328521	827/835	NonOverlappingTemplate
84	80	90	76	82	75	102	66	86	94	0.244115	828/835	NonOverlappingTemplate
89	73	93	72	90	86	84	86	79	83	0.806191	823/835	NonOverlappingTemplate
86	79	95	78	81	81	73	102	87	73	0.402473	828/835	NonOverlappingTemplate
92	65	93	88	87	99	81	67	79	84	0.162606	825/835	NonOverlappingTemplate
81	97	82	94	108	83	70	76	72	72	0.049476	828/835	NonOverlappingTemplate
75	88	76	94	89	83	87	71	94	78	0.612047	822/835	NonOverlappingTemplate
93	78	79	87	77	78	75	86	95	87	0.794979	824/835	NonOverlappingTemplate
88	70	78	84	88	88	90	90	78	81	0.852789	824/835	NonOverlappingTemplate
80	95	79	93	89	74	81	100	67	77	0.230827	831/835	NonOverlappingTemplate
84	85	56	99	94	93	77	88	74	85	0.059934	830/835	NonOverlappingTemplate
91	93	82	91	78	90	89	59	86	76	0.229386	825/835	NonOverlappingTemplate
81	95	88	94	83	72	86	76	79	81	0.745932	829/835	NonOverlappingTemplate
91	81	90	82	84	78	73	95	80	81	0.848757	830/835	NonOverlappingTemplate
67	81	76	99	69	98	88	89	89	79	0.152003	829/835	NonOverlappingTemplate
80	93	80	84	89	82	95	85	71	76	0.741124	828/835	NonOverlappingTemplate
79	80	94	70	77	84	82	69	101	99	0.137188	825/835	NonOverlappingTemplate
89	86	84	76	83	98	73	64	97	85	0.223690	827/835	NonOverlappingTemplate
73	88	89	82	84	75	81	83	85	95	0.870363	828/835	NonOverlappingTemplate
96	84	88	70	74	80	84	74	92	93	0.471285	824/835	NonOverlappingTemplate

75	86	88	91	75	74	85	77	97	87	0.664694	829/835	NonOverlappingTemplate
72	89	84	94	67	87	87	91	76	88	0.485231	830/835	NonOverlappingTemplate
84	83	92	72	83	76	91	98	75	81	0.602041	825/835	NonOverlappingTemplate
69	91	103	66	74	80	80	96	98	78	0.039141	831/835	NonOverlappingTemplate
86	82	94	96	70	85	79	76	81	86	0.674693	826/835	NonOverlappingTemplate
100	79	97	82	74	70	74	87	87	85	0.313801	828/835	NonOverlappingTemplate
74	88	84	87	103	83	73	70	86	87	0.363313	824/835	NonOverlappingTemplate
112	80	95	85	79	85	83	77	73	66	0.043010	822/835	NonOverlappingTemplate
93	79	80	83	86	80	85	80	94	75	0.904132	818/835	NonOverlappingTemplate
83	64	102	77	88	85	90	77	91	78	0.238139	827/835	NonOverlappingTemplate
99	84	85	75	93	83	85	86	89	56	0.105807	826/835	OverlappingTemplate
106	84	85	87	76	76	91	77	72	81	0.310193	821/835	Universal
78	95	91	86	67	77	75	83	91	92	0.441735	826/835	ApproximateEntropy
52	56	49	59	56	56	43	57	54	59	0.905213	534/541	RandomExcursions
62	50	58	48	58	54	60	52	53	46	0.860843	535/541	RandomExcursions
45	62	43	53	59	53	52	63	61	50	0.513755	538/541	RandomExcursions
51	62	51	59	56	44	60	56	62	40	0.395681	537/541	RandomExcursions
46	73	56	43	49	55	58	41	66	54	0.052622	533/541	RandomExcursions
58	61	54	57	40	54	60	52	56	49	0.711827	534/541	RandomExcursions
55	47	41	60	47	66	57	66	46	56	0.192263	534/541	RandomExcursions
54	53	47	60	58	50	57	59	49	54	0.952257	538/541	RandomExcursions
52	53	75	56	51	56	47	55	50	46	0.276980	537/541	RandomExcursionsVariant
55	50	68	68	39	60	45	64	41	51	0.024725	537/541	RandomExcursionsVariant
55	55	63	59	58	50	49	57	45	50	0.832691	538/541	RandomExcursionsVariant
54	71	59	49	61	47	59	38	52	51	0.139773	537/541	RandomExcursionsVariant
61	60	55	52	54	61	46	49	56	47	0.816202	538/541	RandomExcursionsVariant
63	56	51	51	51	54	69	60	44	42	0.247639	541/541	RandomExcursionsVariant
52	67	56	46	60	56	51	48	62	43	0.395681	538/541	RandomExcursionsVariant
54	57	63	52	56	52	49	47	52	59	0.924301	533/541	RandomExcursionsVariant
63	47	50	56	50	67	57	52	57	42	0.412038	532/541	RandomExcursionsVariant
59	46	66	49	56	57	53	55	48	52	0.760120	535/541	RandomExcursionsVariant
56	56	49	60	52	51	66	48	51	52	0.826163	535/541	RandomExcursionsVariant
65	59	49	52	55	53	49	47	57	55	0.848588	536/541	RandomExcursionsVariant
63	57	58	53	52	54	61	56	34	53	0.314321	534/541	RandomExcursionsVariant
60	57	47	53	63	52	52	52	50	55	0.924301	536/541	RandomExcursionsVariant
58	52	56	43	51	56	56	62	49	58	0.839124	537/541	RandomExcursionsVariant
50	54	62	49	47	52	59	48	65	55	0.708044	537/541	RandomExcursionsVariant
51	47	60	50	68	46	56	51	57	55	0.608223	540/541	RandomExcursionsVariant
51	51	55	52	60	51	43	66	47	65	0.408736	539/541	RandomExcursionsVariant
83	110	71	72	98	78	79	81	63	100	0.005109	826/835	Serial
103	74	89	57	93	87	78	85	79	90	0.050247	829/835	Serial
80	87	73	92	87	63	89	91	91	82	0.394028	827/835	LinearComplexity

The minimum pass rate for each statistical test with the exception of the random excursion (variant) test is approximately = 818 for a sample size = 835 binary sequences.

The minimum pass rate for the random excursion (variant) test is approximately = 528 for a sample size = 541 binary sequences.

For further guidelines construct a probability table using the MAPLE program provided in the addendum section of the documentation.

(AEAD_Trap)_freq

FILE = nist_16_aead_trap_100mb.bin

ALPHA = 0.0100

BITSREAD = 1000000 0s = 500727 1s = 499273
BITSREAD = 1000000 0s = 499166 1s = 500834
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BITSREAD = 1000000 0s = 499906 1s = 500094
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BITSREAD = 1000000 0s = 501094 1s = 498906
BITSREAD = 1000000 0s = 499871 1s = 500129
BITSREAD = 1000000 0s = 500635 1s = 499365
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BITSREAD = 1000000 0s = 499596 1s = 500404
BITSREAD = 1000000 0s = 499605 1s = 500395
BITSREAD = 1000000 0s = 500163 1s = 499837
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BITSREAD = 1000000 0s = 499292 1s = 500708
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BITSREAD = 1000000 0s = 499371 1s = 500629
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BITSREAD = 1000000 0s = 499160 1s = 500840
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