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Courtesy Erik Norder - Flickr.

Popular tourist destination when in Arthur's Pass, South Island, New Zealand.

NORWAY

Polynesian society kept tally with refined number system

There are 10 sorts of people, so the old computer programming joke goes: those who understand binary and those who don't.

Now computer scientists will have to expand the scope of the first category to include a preindustrialised Polynesian civilisation. Long before the world's financial centres traded wealth across continents using ones and zeros, it seems Pacific Islanders were doing likewise – but with canoes rather than fibre-optic cables.

Researchers have found that before the arrival of Europeans, settlers on Mangareva Island developed a counting system, a hybrid of decimal and binary, to keep track of trade routes that spanned the tropics, from Hawaii in the north to Pitcairn Island in the south.

Binary is the system of ones

and zeros that computers use for calculations and memory storage. Envisaged by Gottfried Wilhelm Leibniz in the 18th century, binary differs from decimal counting in that instead of each "column" representing a different power of ten (in the number 1273 the first column represents one lot of a thousand, the second two of a hundred, the third seven of ten and so on), each column represents a different power of two (2, 4, 8, 16, 32 and so on). So 2 is 0010, 4 is 0100, 8 is 1000 and 14 is 1110 (= 8 +4+2). The advantage is that calculations are simpler and, for a computer, can be represented by a series of on and off switches each corresponding to a one or a zero. The disadvantage is that numbers can get very long.

For instance, 1024, which is 2 to the power of 10 or, in

computing, a kilobyte, is 10000000000.

Norwegian scientists studied the records of European explorers in Polynesia and found they documented a number system that combined the best of binary and decimal.

If Mangarevans wanted to record the number of coconuts sent to Tahiti or octopuses presented in tribute to their king, the first 10 digits would be decimal. After that, instead of having 10, 20, 30, 40, they had 10, 20, 40, 80 – called takau (K), paua (P), tataua (T) and varu (V).

So 113 would be VPK3, and 76 would be TPK6.

"Oceanic-speaking societies are renowned for their ancestral interest in numbers," the authors write in the journal *Proceedings of the National Academy of Sciences.* The Times

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KA A LITTLE SON / CHILD orig meaning TUBE, CONTAINER HOLION POCKET PAUGE PUTTA-TA PU PAULUU HOLLON POCKET A CONTRINER TO CARRY FIZUIT ITO A POCKET BASKET 2 BAG/SACK for carring food. por a fourt PROVISIONS รคี PU TA- NA NOSTRIL PA KA SOMETHING COOKED IN A BAG PU TA-PULTA opening hale VAEINA MADRI COME COME FORTH COMEONT BE BORN PU TO KE BECHNNEED PU BLISTER ON The SKIN PUPU TH TAILHU NOSTRIL HA Breathe Breath BASKET PU TAIKI TA NETANE Gructate after food. PU TESTICLE PU TA-WA Bag [TUTU Berrics] PU TUJI Basket for fish WP PU Not TA prepare for roat in water PU RU Crayfish Pot SHEAF ar cover for feather's Basket for Eeks Netting or Wearing Shit RAKA PU PU NI NED PU TA NGB TA Gather fruit of a Tree COOK FOOD TA HORA HU TA abortion menses TAHE TAI AND VAGINA TARINGA EAR

8 LOVE Affection PEMA 472 PAU PR 1 from PREMA COBSK PE MEORI LIKE MB-R1 RI LOVE PIR-1 HONED KEEPING CLOSE FRITHFUL NAWA MA MIND VA MB NB SK MIND TA MA-ITI CHILD Marny PERENT MATUA imp 2nd Sig of -TO GO ON, said to Herse. PETHI 474 PALI PAL+1 PEHI PMBUSH MARCH SPEAR DART PETH-U DRIVE OUT BONISH PE Branch Road. PE KA NER Capulate H KIZ LEDP OVER PE KE PA PASS GO BY H1 KUWAI Source da Stream HI HIKO BRISK QUICK KA HIKA LINE & DESCENT HI HI CONVEY H KI RANGE BE UNSETTLED H KI HI KO1 STEP. traverse land to claim ourership TAKA HI WHAKA HI-E SHOUT AT TO DRIVE AWAY H1-1 AKA! HUNGER H1-DINU THIRST H1-A NOT SLEEPY Desire 171-A1 15 R. WA1-HOW MONY 41-R Leada Song Be affected Lette DIARRHOFA drive urge compell ivo see HI HT SK 4

q PAVAKA I aN PURE BRIENT CLEDR SHINING PALI 455 from THE FIRE PU 2 PU GLOW SHANA HEAT GLOW FLAME HAND MADORI PA BURN FIRE NU HU SMOKE PA WA MEDIUM da KA 600 WA take fine be lighted KA burn. NB RAY & SUN WB BURNING COALS WA RO PU BHO CLEDIE BRIGHT PEKKHA POU LOOKING OUT FOR INTENTUPON PREKSA CPSK PATIKS PEKKHANA from PA+IKS SEEINESIGHT LOOK PEKKHA TO BE LOOKED FOR TO BE EXPECTED > 1-HO MATURA MIND ESIRABLE PEKKHA T/TO BEHOLD REEARD OBSERVE HIKK MADIN PA-IK-ESTRIKELOOK AT PA FROM MADRI OF WHAT APPEARANCE & SORT PE HEA PE WHET 2 PE LIKE PA GOOD LOOKING GOD EXCELLENT ASTAR whose appearance marks PEK -E-HOWAWI Ł 8TH MONTH = RUHT HI DA abfe KE PA HA POM KE of non IDENTITY different of another KIND DOIN THIS WAY PE NET PĒ PEREKOU OLD MAN or WOMAN KBH-U-KURA RAINBOW KAH -UA FORM APPEDRANCE KA NO 171 FYE KA TI peoping a direct course just LOOK SEE EXAMINE Right Correc TI RO Loo -HAHA A-MAU1 MILKY WAY IK -A HIGH LOFTY IK - E IK -A EISH _ VICTIM IN COMPORISON WITH COMPARE MEASURE NE

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6 TARA CARRY ACROSS 4432 TO SPREDD OUT PROCEED TAY IN B CONTINUOUS TREAM TAN Pass VISHA HEAVEN OCEAN TA Vo TA TARA KI NI STARRY NIGHT TA STAR FILLED, MAN KI= ARAKI T SEMIDOR KIND BLINK STORFILL TARAKA STAR EYED KA rel KS HA J MAORI KANAPA SHINING KANOHI EYE $q_{\rm V} =$ COME GO REDOLT ARRIVE AT TA 5 KING BLINK = VARUNAS EVES SPIES Company of trowellers STARS RA TI RA RAWIZETNUS FLOOD PRA RA WERA SOUTH WIND PA PARARIN SED DRIFT TA Sa Monster CAUSINE the TIDE PA RA FLOW of the TIDE PARA PA THE OTHER SIDE TA 11 SED TIDE WOVE RIDGE TH 1 a STAR IN CLOSE CONTUNCTION IAPU TA [WITH the MOON KA NO EYE Expedition for attouck TAI DIDO DIDO VERY BRIGHT Of He MEON Roups of Sun Before Survise TARA TARA TORIO STAKES da FENCE TARAPUR ASEA BIRD STUDY THE HEAVEN'S IN NAVIEATION TA TA 1 a Star in Millby way TARINO RIKI LEDDER da FLOON D'PARROTS RA TA TR alight come to Rest TA V TWINKLE da STAR U KAPO TA UMITY TOHI MOON ON 18NIGHT MOON = STAF RAKA BOORN BEDECK ROKOII TA INTENSELY BRIGHTLY & COLORS K1 RA NEI SKY HEAVEN HARO VAULT & HEAVEN

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